



ESO Supernova
Planetarium & Visitor Centre

A NEW SUPERNOVA OVER MUNICH!



Quarterly Programme | 2018

April–June



Klaus Tschira Stiftung
gemeinnützige GmbH



Heidelberg Institute for
Theoretical Studies



The ESO Supernova is proudly supported by

Founding Partners



Klaus Tschira Stiftung
gemeinnützige GmbH



Heidelberg Institute for
Theoretical Studies



Galaxy Partner



Constellation Partners



Star Partners

We're waiting for you!

Planet Partner



Media Partner



Technology Partners



Educational Partner



About the logo

The multiple overlapping stars in the logo symbolise the energy of a supernova and the vibrant energy of the educational facility. Associations with a spirograph or the repetitive swinging of a pendulum are welcome. The underlying fundamental geometry in the logo comes from the stars used in the ESO logo.



ESO Supernova
Planetarium & Visitor Centre

Welcome to the ESO Supernova!



Tania Johnston

Astronomy asks some of our society's largest philosophical questions: Where do we come from? What is the Universe made of? Are there other planets like the Earth? Do they support life? As a science of extremes — the largest distances, longest periods of time, most massive objects, highest temperatures, most extreme energies — astronomy makes excellent use of new technologies and in turn drives advances in technology.

Astronomy enjoys much public interest, and as such it is a perfect vehicle for attracting young minds to science and technology, which is crucial for the long-term survival of our civilisation. ESO recognises this, and has an active programme of education and outreach.

It was known in antiquity that sometimes a new star appears in the heavens. In the scientific language of the day, Latin, it was called *stella nova* or simply *nova*. Much later it was realised that some of these events are, in fact, very distant and hence very bright explosions of entire stars, and they were given the name supernova.

The unique design of the new ESO Supernova resembles that of a close double star transferring mass from one component to the other, which will ultimately lead to the heavier component exploding as a supernova, briefly becoming as bright as the light of all the stars in the Milky Way combined, easily visible from the Earth. The new centre is expected to similarly shine like a supernova, generating enthusiasm and passion for astronomy all around.

Tania Johnston
ESO Supernova Coordinator

The ESO Supernova Planetarium & Visitor Centre

The ESO Supernova Planetarium & Visitor Centre is a cutting-edge astronomy centre for the public located at the site of ESO Headquarters in Garching bei München. It was made possible by a cooperation between the European Southern Observatory (ESO) and the Heidelberg Institute for Theoretical Studies (HITS). The building is a donation from the Klaus Tschira Stiftung and ESO runs the facility.

The ESO Supernova is a non-profit educational facility that receives no state funding other than through ESO's normal operating budget. The entrance and all activities are free of charge throughout all of 2018. From 2019 we will sell tickets for activities like planetarium shows, tours and events. The entrance to the exhibition and all educational activities will remain free.

The ESO Supernova's vision is to make our community aware and proud of their astronomical achievements. By sharing the fascinating world of astronomy and ESO, we aim to inspire coming generations to appreciate and understand the Universe around us. The ESO Supernova's mission is to engage you — the visitors — as active participants. By designing curriculum-based learning experiences and using Big Data in astronomy to create innovative and authentic visualisations of front-line science, we bring ESO's observing facilities in the Southern Hemisphere closer to you.

The heart of the ESO Supernova is a planetarium with state-of-the-art projection technology, 109 seats, a dome 14 metres in diameter and a scientifically accurate three-dimensional astronomical database, which ensures an authentic and immersive experience. The ESO Supernova also contains a 2200 m² interactive astronomical exhibition, featuring a small 3D cinema and guided tours. In addition, school classes can book one of our hands-on workshops.

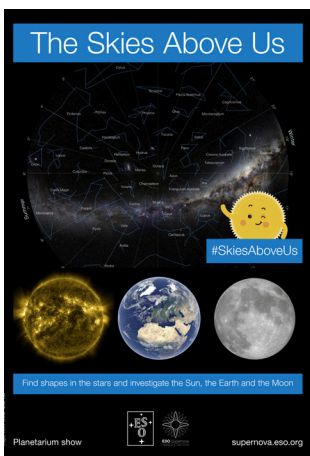
ESO Supernova in numbers

13	Themes in the "The Living Universe" exhibition
2200 m ²	Area of the exhibition space
255 m	Length of the exhibition ramp
109	Seats in the planetarium
14 m	Diameter of the planetarium dome
25°	Inclination of the planetarium dome
15.5 m	Height of the Void
140 m ²	Area of the Void
2	Seminar rooms
166 m ²	Total area of the seminar rooms
50 000–100 000	Expected number of visitors per year



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The Skies Above Us



Educational show

Designed specifically for our youngest school groups, this educational show investigates the Earth–Moon–Sun system and tells stories of the constellations. This interactive and engaging show is aimed at children aged 4–7.

Duration: 01:00

Languages: EN/DE

A Tour of the Solar System



Educational show

For primary school visitors and young families, this educational planetarium show, ideally suited to children aged 8–11, combines an exploration of the night sky with a factual journey through our Solar System.

Duration: 01:00

Languages: EN/DE

Hidden Universe

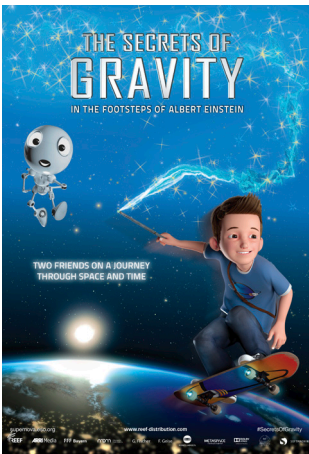


Family show

With the full power of IMAX® cinematography, explore the earliest galaxies and travel the terrain of Mars; witness images of distant celestial structures including stunning new views of the Sun; peer deep inside the Universe's most mysterious nebulae where stars are born; explore ESO's flagship facility, the Very Large Telescope (VLT); visit the largest astronomical project in existence, the Atacama Large Millimeter/sub-millimeter Array (ALMA) — all in the film *Hidden Universe*.

Duration: 00:51
 Languages: EN/DE

The Secrets of Gravity —
 In the Footsteps of Albert Einstein



Family show

Robot ALBY takes young Luke on a magical journey of discovery through time and space, during which they not only uncover the secrets of gravity, but also learn about friendship and imagination — for both Luke and ALBY have secrets of their own.

Duration: 01:00
 Languages: EN/DE

Europe to the Stars

Ages
8+



Family show

Join an epic journey behind the scenes at the most productive ground-based observatory in the world, revealing the science, history, technology and people of the European Southern Observatory.

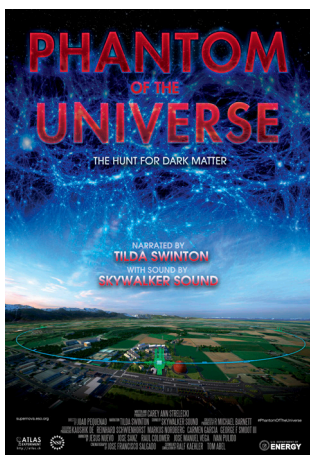
Discover ESO's story of cosmic curiosity, courage and perseverance; a story of observing a Universe of deep mysteries and hidden secrets; and a story of designing, building and operating the most powerful ground-based telescopes on the planet.

Duration: 00:50

Languages: EN/DE

Phantom of the Universe

Ages
11+



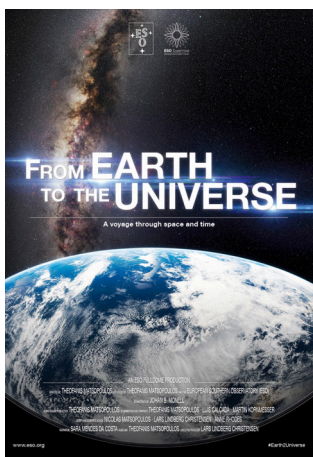
Family show

Follow the search for dark matter, from the first hints of it ever observed to today's advanced experiments in particle colliders. Race alongside protons and witness their collisions in stunning visualisations, understand dark matter, discover what we know about it so far and what are scientists still looking for.

Duration: 00:42

Languages: EN/DE

From Earth to the Universe



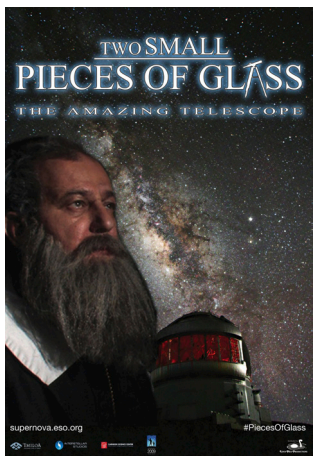
Family show

This stunning voyage through space and time conveys the Universe revealed to us by science. Revel in the splendour of the Solar System's many worlds. Travel to the colourful birthplaces and burial grounds of stars, and still further out beyond the Milky Way to the unimaginable immensity of a myriad galaxies. Along the way, you will learn about the history of astronomy, the invention of the telescope, and today's giant telescopes that allow us to probe ever deeper into the Universe.

Duration: 00:47

Languages: EN/DE

Two Small Pieces of Glass – The Amazing Telescope



Family show

Join two teenagers at a local star party and learn how the telescope has helped us understand our place in space and how it continues to expand our knowledge of the Universe. From Galileo's modifications to a child's spyglass – using two small pieces of glass – to the launch of the NASA/ESA Hubble Space Telescope, the show will present the past, present and future of astronomy.

Duration: 00:38

Languages: EN/DE

Treffpunkt Führungen *Meeting point tours*

Look for the meeting point sign in the entrance area

Experience the exhibition of the ESO Supernova on your own, or join one of our guided tours. Competent and motivated guides will tell you the most interesting stories about ESO, and about astronomy in general. They will lead you to the highlights of the exhibition and even into ESO Headquarters next door, answering any question you may have about astronomy!

We offer three different tours, available in both German and English. Make your choice, reserve a place in advance, print a ticket from a ticket kiosk at the ESO Supernova, and join us. All tours start from the Void, next to the entrance area, and last for about 45 minutes.

Exhibition Tour



Standard tour

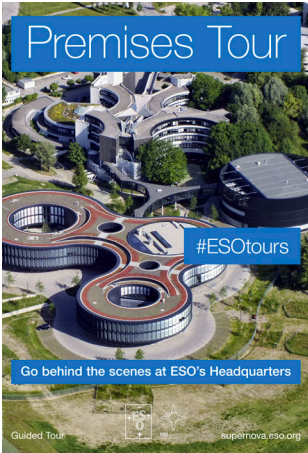
Join one of our guided tours to be led through the exhibition and have the opportunity to talk to a real astronomer. Your guide will lead you around the highlights of the exhibition and answer any questions you may have about astronomy.

Duration: 00:45

Languages: EN/DE

Max. no. participants: 25

Premises Tour



Standard tour

Take a peek into the heart of the European Southern Observatory by visiting the ESO Headquarters building, and learn more about the history and future of ESO. The building is normally closed to visitors.

Duration: 00:45
 Languages: EN/DE
 Max. no. participants: 25

ArchitecTour



Standard tour

All the ESO buildings are architectural stars, known worldwide for their intricate design. Join this tour to see these buildings close up, learn about their clever details, and explore the ESO Headquarters.

Duration: 00:45
 Languages: EN/DE
 Max. no. participants: 25

For practical reasons the guided tours are limited to 25 people. Please ensure that you reserve your tickets in advance. Check the detailed schedule within this programme or the infoscreens at the ESO Supernova for the starting times of the tours.

Themed Tours

Do you want a special tour for you and your friends, focusing on a specific topic? Would you prefer to have a tour in French or Spanish, or at a specific time? If so, we have the tour for you! Choose one of the tours from the list below and reserve it online. These tours cost 200 € each for up to 25 people.

All Themed Tours:

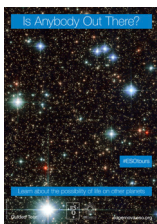
Duration: 00:45

Max. no. participants: 25

Languages: EN/DE

Other languages on demand

Is Anybody Out There?



Themed tour

Learn about the possibility of life on other planets in the Solar System, and about the detection of planets orbiting other stars. Be amazed at the difficulties astronomers face in their quest to explore planets light-years away.

Big, Bigger, ELT



Themed tour

Learn about the evolution of the telescope, from Galileo's instrument to the most modern telescopes used by ESO, such as the Very Large Telescope and the future ELT. Our guides will tell you why we need ever bigger telescopes and what astronomy and your cell phones have in common.

The Astronomical Zoo



Themed tour

Galaxies, stars, planets: these are just a few of the different types of objects visible in the night sky. Learn more about them and other strange objects like black holes, white dwarfs and brown dwarfs. Are they all stars like the Sun? You will find out.

We Are Made of Stardust!



Themed tour

Most atoms in our body were once inside a star. Learn how the evolution of the Universe is closely connected to the evolution of life and how material is recycled in stars.

It All Started with a Bang!



Themed tour

How do we know about the Big Bang? What came before it, and what will happen at the end of the Universe? How old is the Universe, and how do we know? Questions like these will be answered on this tour.

The Big Questions



Themed tour

Astronomers have solved many of the mysteries of the Universe, but there are still many big open questions. Learn about all the questions we don't have answers to yet: What are dark matter and dark energy? Is there a second Earth out there? Are we alone?

We Are All Doomed!



Themed tour

Learn how risky it is for life to exist in a Universe full of supernovae, gamma-ray bursts, galactic collisions, black holes, and asteroids. How do we survive the end of the Sun, or the end of the Universe? How can we prepare for all that?



Education at the ESO Supernova

The ESO Supernova provides unforgettable learning experiences for students of all ages. Professional educators use astronomy to inspire and awaken the interest of young people in science and technology, through interactive activities and experiences that will leave a long-lasting impression. Classes come to the ESO Supernova to discover the wonders of the Universe and to spend time investigating real astronomical problems.

An ESO Supernova educational experience includes interactive planetarium shows, workshops and tours, as well as access to our engaging exhibition. Experiences are adapted to the age of visiting school groups — we welcome students aged 4–18. In addition to our range of family-friendly planetarium shows, we have two specially-developed educational shows with strong curriculum links.

We have created six different hands-on workshops tailored to different stages in the school curriculum, from kindergarten to grade 13. Each workshop is linked to the Bavarian curriculum and gives students a fun and interactive experience of what it's like to be an astronomer investigating a real scientific problem. These workshops also demonstrate to teachers how an astronomical context can be used to teach a wide range of curriculum subjects, linking them together in an interdisciplinary way.

A full educational visit lasts between three and four hours. These packages are available in German as well as English. School groups must have advance reservations for workshops, guided tours and planetarium shows. All our educational experiences are **free**.

For teachers, the ESO Supernova offers special teacher training sessions and it coordinates a network of teachers in Bavaria, Germany and Europe.

Please visit our website and check our educational flyer for additional information!



ESO/P. Horálek



Teacher workshops, events and activities

ESO/M. Zamani



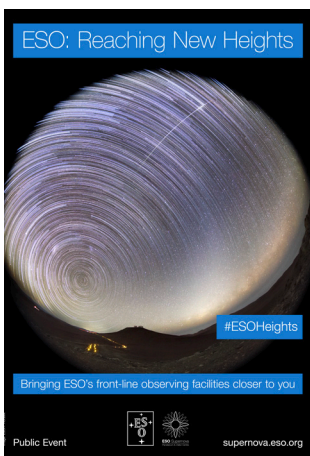
Aerial view of the ESO Headquarters





ESO: Reaching New Heights

19:00



Duration: 01:00

Languages: EN/DE

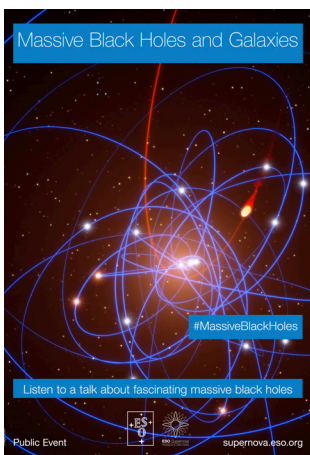
Dates: 04.05. (DE) | 15.06. (EN)

Public talk

As the world's leading ground-based astronomy organisation, the European Southern Observatory (ESO) builds and operates some of the best telescopes in the world, enabling astronomical discoveries and the further understanding of our fascinating Universe. This live planetarium show will provide an overview of the organisation, including amazing footage of the telescopes in the Atacama Desert, scientific simulations of discoveries made with these facilities, and a peek into the future as ESO builds the world's largest optical telescope, the Extremely Large Telescope (ELT).

Massive Black Holes and Galaxies

19:00



Public talk

By means of precision measurements, astronomers have found convincing proof for the existence of a supermassive black hole at the centre of the Milky Way. It has also become clear to astronomers that such black holes must have been created about one billion years after the Big Bang. Prof Genzel will discuss these new measurements and their consequences for the formation of black holes in the early Universe.

Duration: 01:00

Language: DE

Date: 11.05.



Behind Hubble's Images

19:00

Public talk

At ESO we are proud to have produced many of Hubble's images for ESA over the past 18 years. What makes astronomical images, and Hubble images in particular, so striking? And how are they made?

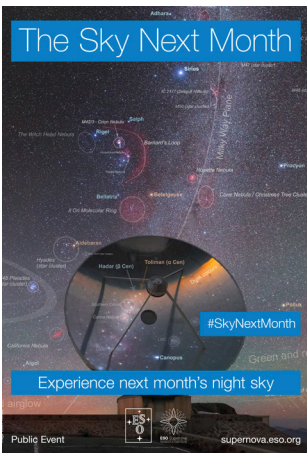
Duration: 01:30

Languages: EN/DE

Dates: 18.05. (EN) | 08.06. (DE)

The Sky Next Month

19:00

Public talk

A summary of the astronomical highlights to look out for in the coming month's night sky, and a round-up of the latest news.

Duration: 01:00

Language: DE

Dates: 01.06. | 29.06.

Further than the Eye can See!



Family activity

In this activity you will discover a type of light that our eyes are not able to see — infrared light. You will use modified webcams to find out what the world would look like if your eyes were sensitive to this kind of light. A thermal imaging camera will make infrared radiation visible. You will find out that it's important to look beyond the visible, to see the Universe through different eyes, in order to get the whole picture.

Duration: 01:30
Language: DE
Date: 10.05.

Near-Earth Objects



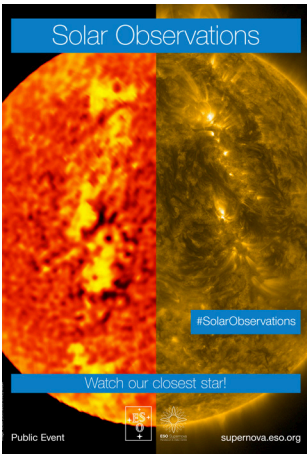
Family activity

Experts in the fields of asteroids and risk assessment bring you up-to-date with the most recent scientific results regarding the properties, detection and potential impacts of Near-Earth Objects. Among other activities, you will witness the “birth” of palm-sized comet that resembles the structure and dynamics of its real astronomical counterpart.

Duration: 02:00
Language: DE
Date: 26.05.



Solar Observations



Duration: 01:30
 Language: DE
 Date: 10.06.

Family activity

In this activity you will discover the Sun and learn about how to observe this bright shining ball of gas without damaging your eyes. Using equipment provided by the Amateur Group for Astronomy Projects at ESO (AGAPE) you will be able to explore structures on the solar surface, seeing the delicate filaments, prominences at the solar limb, and much more. The Sun will no longer be just a featureless, untextured ball of gas to you but instead a dynamic and exciting star that's definitely worth exploring.

Asteroid Day



Family activity

Join us on 30 June for a day full of family-friendly activities, including interactive demonstrations, hands-on experiments and engaging science talks. We will also broadcast live as part of the *Asteroid Day* 24-hour global webcast. During the day you will discover all about asteroids and ESO's role in protecting the Earth from potential impacts.

Duration: 04:00
 Language: EN/DE
 Date: 30.06.

Stan Dart — Mare Stellaris

19:00



Cultural performance

Inspired by icons like Jean Michel Jarre, Vangelis and Kitaro, Stan Dart composes electronic dreams and weaves stories about space.

Accompanied by cosmic visuals, Stan Dart's Mare Stellaris show features a soundtrack that the Austrian ESO Music Ambassador composed especially for the opening of the new ESO Supernova Planetarium & Visitor Centre.

Duration: 01:30

Language: DE

Date: 25.05.

tonelabs — Fragmented Future

19:00



Cultural performance

Musicians Ali and Max, alias tonelabs, live in Munich and produce music that is not just a sequence of sounds, but also an attitude to life. Combining animations and videos from around the world, *Fragmented Future* is a musical journey that invites you to discover new dimensions.

Duration: 01:30

Language: DE

Date: 22.06.

DOK.fest in the ESO Supernova

DOK.fest Munich is one of Europe's biggest documentary film festivals.

**DOK.
fest**
MÜNCHEN
02.-13. MAI
2018

The ESO Supernova joins the educational programme associated with the 2018 edition of the International Documentary Film Festival Munich, DOK.fest Munich for short. On 6 May, from 14:00 to 15:00, we will offer a special screening of *The Secrets of Gravity*. On 13 May, from 14:00 to 15:00, we will offer a sneak preview of the new ESO planetarium show *Europe to the Stars*, opening at the ESO Supernova in June.

Special Screening: The Secrets of Gravity — In the Footsteps of Albert Einstein



Family show

Robot ALBY takes young Luke on a magical journey of discovery through time and space, during which they not only uncover the secrets of gravity, but also learn about friendship and imagination — for both Luke and ALBY have secrets of their own.

Free entrance

Language: DE

Sneak Preview: Europe to the Stars



Family show

Join an epic journey behind the scenes at the most productive ground-based observatory in the world, revealing the science, history, technology and people of the European Southern Observatory.

Tickets are available at
all Dok.fest Munich outlets

Language: DE

Your Events at the ESO Supernova

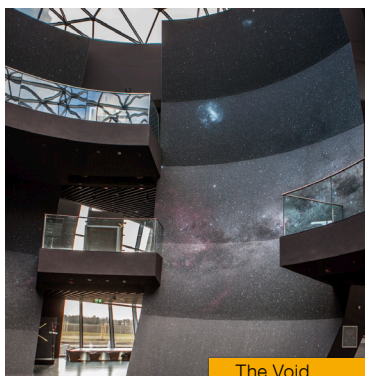
Exploring the Universe is what the ESO Supernova is all about. This engaging, exciting and educational place can be a perfect starry backdrop for your event.

The building contains a large exhibition area, which spirals up and down through the whole building, and a spacious area known as the Void that is beautifully illuminated by natural light during the day and lit at night to reproduce the constellations of the southern sky. There are also two seminar rooms, a rooftop terrace, a foyer and a digital planetarium. The ESO Supernova offers a generous space for private events, large or small, with space for up to 600 guests. Depending on your needs, you can use the planetarium as a unique venue for your event, the Void for press conferences held in a modern environment, the exhibition area for an exciting and innovative event, or the seminar rooms for a more classic approach.

Please refer to our Events brochure for more details, or email events@eso.org



The planetarium




The Void



The exhibition area



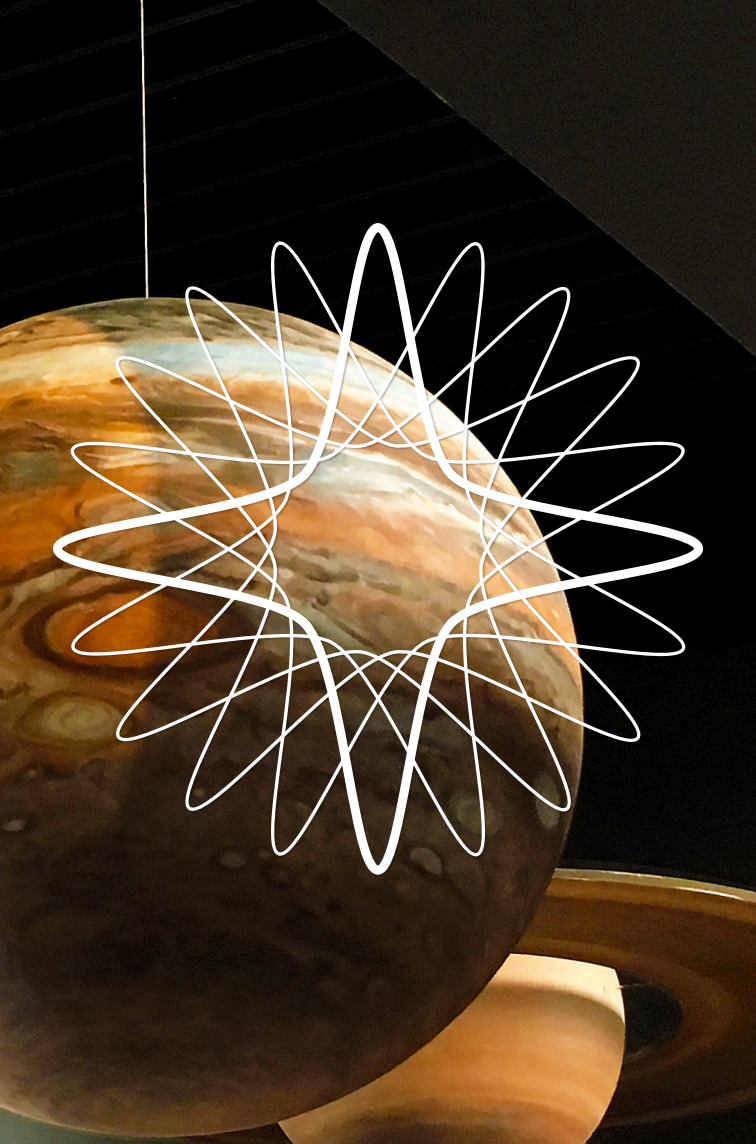
The seminar rooms



A cutting-edge planetarium & astronomy centre for the public

located in Garching bei München,
at the Headquarters of the
European Southern Observatory (ESO)

Support the ESO Supernova.
Donate at supernova.eso.org/donate



Experience the
Universe



The Permanent Exhibition: The Living Universe

The ESO Supernova hosts an outstanding, modern and interactive astronomical exhibition, which is as entertaining as it is educational. Explore, touch and use real astronomical artefacts and conduct experiments to get an idea of what it means to be an astronomer, to work in science, and to discover the mysteries of the Universe.

The exhibition covers the topic of life in the Universe in the broadest sense. It connects you with topics that can seem very distant and abstract by focusing on the human–Universe connection, general astronomy, life in the Universe, and how we observe the Universe using ESO facilities.

Investigate all 13 different themes of the exhibition or select your own highlights. Choose the depth of knowledge you would like for every single item, giving you complete control over how deeply you would like to delve into the fascinating science of astronomy.

How long you stay is up to you — you can spend just 30 minutes on a quick walkthrough, or up to four hours on an in-depth study of all the exhibits. You can even make several visits, concentrating on a different part of the exhibition each time!

All information in the exhibition is available in English and German.



Temporary exhibition: Our Place in Space



In 2015, the NASA/ESA Hubble Space Telescope celebrated its 25th anniversary. Named in honour of Edwin Hubble, the astronomer who discovered the expansion of the Universe, Hubble was placed in orbit in 1990 and is the result of a close international partnership between NASA and the European Space Agency.

Now, 28 years later, Hubble has surpassed the expectations of its designers and builders. Its discoveries have changed the way we see and understand the Universe. Not only has Hubble transformed our knowledge of the Universe, it has also greatly impacted culture, society and art. For almost three decades now, Hubble’s images have inspired artists all over the world. They have provided a stunning pictorial landscape to the deep existential questions that we all share: Where do we come from? Where we are going? Are we alone? These questions are of great interest to professional astronomers but also have deep meaning for each one of us as inhabitants of planet Earth.

In the exhibition *Our Place in Space*, astronomers and artists alike give us their interpretation of where we are, where we belong, what our past might have been and what our future might be. The exhibition also takes a look at space exploration, and how we have expanded our horizons from the boundaries of our planet’s atmosphere out towards our neighbouring worlds.



Date: From 17.05 until 02.09.2018

The Helix Nebula

The programme is subject to modifications.
Please consult the online programme at supernova.eso.org

April

Sky and Historical Events

02.04.2018	Planet conjunction (Saturn and Mars)
05.04.1991	<i>Compton Gamma Ray Observatory launched in orbit</i>
08.04.2018	Third Quarter Moon April
12.04.1961	<i>First human spaceflight & Yuri's Night</i>
16.04.2018	New Moon April
22.04.2018	Lyrids Meteor Shower
22.04.2018	First Quarter Moon April
24.04.1990	<i>Hubble Space Telescope launched in orbit</i>
30.04.2018	Full Moon April

28.04.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Hidden Universe	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
29.04.2018 SUN	15:30	SHOW	The Secrets of Gravity	DE
	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN

May

Sky and Historical Events

06.05.2018	Eta Aquarids Meteor Shower
08.05.2018	Third Quarter Moon May
09.05.2018	Jupiter at opposition
12.05.2018	Planet conjunction (Mercury and Uranus)
14.05.2009	<i>Herschel Space Telescope launched in orbit</i>
15.05.2018	New Moon May
22.05.2018	First Quarter Moon May
24.05.1543	<i>Copernican worldview first published (Copernicus' death day)</i>
29.05.1919	<i>Solar eclipse that led to the proof of general relativity</i>
29.05.2018	Full Moon May
30.05.1975	<i>Foundation of ESA (European Space Agency)</i>

02.05.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	The Secrets of Gravity	DE
	15:00	SHOW	From Earth to the Universe	EN

03.05.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
04.05.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	Reaching New Heights	DE
05.05.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Hidden Universe	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
06.05.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	The Secrets of Gravity	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
09.05.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	The Secrets of Gravity	DE
	15:00	SHOW	From Earth to the Universe	EN
10.05.2018 THU	10:00	SHOW	From Earth to the Universe	DE
	11:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Hidden Universe	DE
	14:00	EVENT	Further than the Eye can See!	DE
	15:30	SHOW	Hidden Universe	EN
11.05.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	Massive Black Holes and Galaxies	DE
12.05.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Two Small Pieces of Glass	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE

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13.05.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	TOUR	Premises Tour	EN
	14:00	EVENT	Sneak Preview of Europe to the Stars, Munich DOK.fest	DE
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
16.05.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	The Secrets of Gravity	DE
	15:00	SHOW	From Earth to the Universe	EN
17.05.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
18.05.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	Behind Hubble's Images	DE
19.05.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Two Small Pieces of Glass	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
20.05.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
23.05.2018 WED	10:00	SHOW	The Secrets of Gravity	DE
	11:30	SHOW	Hidden Universe	DE
	13:00	TOUR	Premises Tour	DE
	14:00	SHOW	Phantom of the Universe	DE
	15:30	SHOW	From Earth to the Universe	EN
24.05.2018 THU	10:00	SHOW	From Earth to the Universe	DE
	11:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Hidden Universe	DE
	15:30	SHOW	Two Small Pieces of Glass	EN

25.05.2018 FRI	10:00	SHOW	The Secrets of Gravity	DE
	11:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Premises Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	15:30	SHOW	Hidden Universe	EN
	19:00	EVENT	Stan Dart – Mare Stellaris	DE
26.05.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Phantom of the Universe	EN
	14:00	EVENT	Near Earth Objects	DE
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
27.05.2018 SUN	12:30	SHOW	Hidden Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
30.05.2018 WED	10:00	SHOW	The Secrets of Gravity	DE
	11:30	SHOW	Hidden Universe	DE
	13:00	TOUR	Premises Tour	DE
	14:00	SHOW	Phantom of the Universe	DE
	15:30	SHOW	From Earth to the Universe	EN
31.05.2018 THU	10:00	SHOW	From Earth to the Universe	DE
	11:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Hidden Universe	DE
	15:30	SHOW	Two Small Pieces of Glass	EN

We support the
Natural Sciences, Mathematics
and Computer Science.

June

Sky and Historical Events

01.06.1997	<i>Hipparcos catalogue publication</i>
06.06.2018	Third Quarter Moon June
13.06.2018	New Moon June
20.06.2018	First Quarter Moon June
21.06.2018	June solstice
27.06.2018	Saturn at Opposition
28.06.2018	Full Moon June
30.06.1908	<i>Tunguska meteorite impact</i>
30.06.2018	Asteroid Day

01.06.2018 FRI	10:00	SHOW	The Secrets of Gravity	DE
	11:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Premises Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	15:30	SHOW	Hidden Universe	EN
	19:00	EVENT	The Sky Next Month	DE
02.06.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Phantom of the Universe	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
03.06.2018 SUN	12:30	SHOW	Hidden Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
06.06.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	The Secrets of Gravity	DE
	15:00	SHOW	From Earth to the Universe	EN
07.06.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
08.06.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	Behind Hubble's Images	DE

09.06.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Two Small Pieces of Glass	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
10.06.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Two Small Pieces of Glass	DE
	14:00	TOUR	Premises Tour	EN
	14:00	EVENT	Solar Observations	DE
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
13.06.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	From Earth to the Universe	EN
14.06.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
15.06.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	ESO: Reaching New Heights	DE
16.06.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Two Small Pieces of Glass	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
17.06.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	The Secrets of Gravity	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
20.06.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Europe to the Stars	EN

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21.06.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
22.06.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Europe to the Stars	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	tonelabs – Fragmented Future	DE
23.06.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	From Earth to the Universe	EN
	14:00	TOUR	ArchitecTour	EN
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE
24.06.2018 SUN	12:30	SHOW	Phantom of the Universe	DE
	13:00	TOUR	Exhibition Tour	DE
	14:00	SHOW	Europe to the Stars	DE
	14:00	TOUR	Premises Tour	EN
	15:00	TOUR	ArchitecTour	DE
	15:30	SHOW	The Secrets of Gravity	EN
27.06.2018 WED	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	The Secrets of Gravity	DE
	15:00	SHOW	From Earth to the Universe	EN
28.06.2018 THU	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Two Small Pieces of Glass	DE
	15:00	SHOW	Hidden Universe	EN
29.06.2018 FRI	09:30	SHOW	The Skies Above Us	DE
	11:00	SHOW	A Tour of the Solar System	DE
	13:30	SHOW	Hidden Universe	DE
	15:00	SHOW	Phantom of the Universe	EN
	19:00	EVENT	The Sky Next Month	DE
30.06.2018 SAT	12:30	SHOW	From Earth to the Universe	DE
	13:00	TOUR	Exhibition Tour	EN
	14:00	SHOW	Two Small Pieces of Glass	EN
	14:00	TOUR	ArchitecTour	EN
	12:00	EVENT	Asteroid Day	DE
	15:00	TOUR	Premises Tour	DE
	15:30	SHOW	The Secrets of Gravity	DE

Saturday 30 June 2018

Join us for

Asteroid Day!



MIAPP
Munich Institute for
Astro- and Particle Physics



TUM

150 Jahre
culture of
excellence

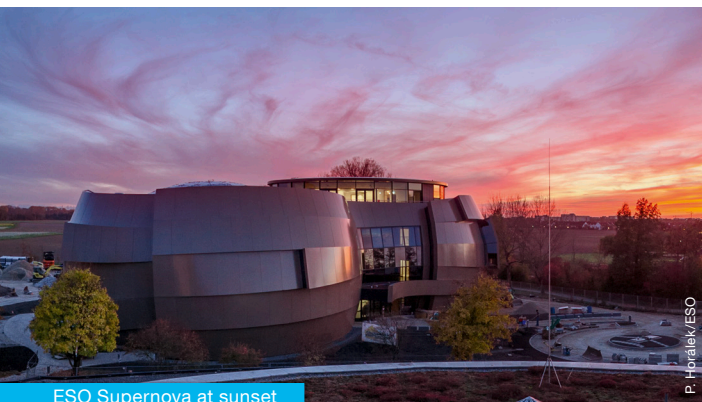
ESO Supernova

Planetarium & Visitor Centre

The ESO Supernova is designed by the architects Bernhardt + Partner. Their office was established in 1994 and is located in Darmstadt, Germany. The team's ability to design eye-catching, memorable science buildings is evident in their past projects, such as the Haus der Astronomie and the EMBL International Centre for Advanced Training (both in Heidelberg).

www.bernhardt-partner.de

Plan Your Visit



ESO Supernova at sunset

Tickets & Reservations

All admission is free of charge in 2018. You can help us keep the centre free for everyone by making a donation of your choice. Though free, tickets are still required for planetarium shows, tours and special events and we highly recommend booking in advance online. Tickets are printed from ticket machines on-site.

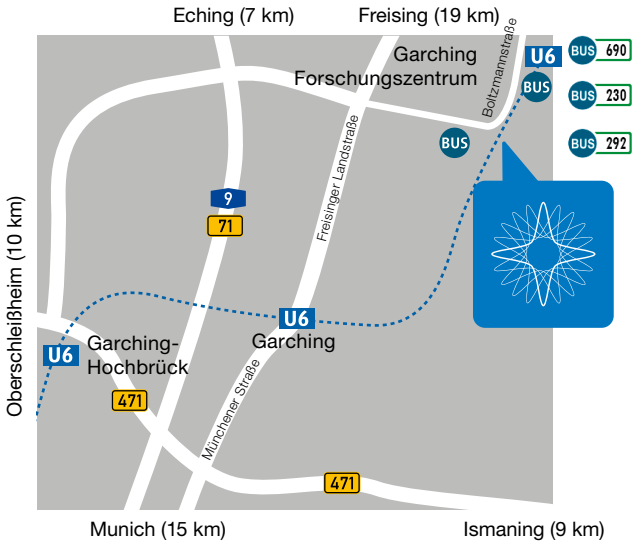
If you would like to book an educational workshop, hire one of our rooms for a special event or organise a group visit, please contact us: supernova@eso.org

Opening Hours:	Wednesday	09:00–17:00
	Thursday	09:00–17:00
	Friday	09:00–17:00
	Saturday	12:00–17:00
	Sunday	12:00–17:00

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the Universe
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located in the foyer.





How to Get Here

The ESO Supernova is located 2 km north-east of Garching and about 15 km north-east of Munich in the “Forschungszentrum” area.

GPS: 48° 15' 36.90" N, 11° 40' 15.16" E

By car: Take the A9 exit Garching-Nord (Garching-North), which leads you to the “Forschungszentrum” area. Go straight ahead at the traffic lights. ESO is located in the south-east corner of the campus, which is in front of you as the road turns left.

By subway: The ESO Supernova is only four minutes on foot from the final station of the U6 line, Garching Forschungszentrum.

By bus: Bus stop on Ludwig-Prandtl-Straße: Bus 292 via Oberschleißheim, Bus 230 via Ismaning and Bus 690 via Eching.

Parking is limited. We recommend using public transport.

Coach unloading/parking is in front of ESO. Parking spaces are available in front of the ESO Supernova.

Disabled parking is available close to the entrance.



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This stunning voyage through space and time conveys the Universe revealed to us by science. Revel in the splendour of the worlds in the Solar System. Travel to the colourful birthplaces and burial grounds of stars. And still further out beyond the Milky Way to the unimaginable immensity of myriads of galaxies.



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SCRIPT AND SCIENTIFIC ADVICE: NICOLAS MATSOPOULOS · LARS LINDBERG CHRISTENSEN · ANNE RHODES

NARRATION: SARA MENDES DA COSTA AUDIO MIX: THEOFANIS MATSOPOULOS EXECUTIVE PRODUCER: LARS LINDBERG CHRISTENSEN

www.eso.org

#Earth2Universe

ESO Supernova
Planetarium & Visitor Centre

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