

Europe's launch to the icy moons



As a kickoff event for a closer, continuing collaboration, ESA and IPS present together on the international planetarium day, May 7th, a special event that will be transmitted online in fulldome format:

- **May 7th, 19:30 CEST**
- **Duration: 1 hour, plus questions from the audience(s)**
- **presented in English language, for planetariums across Europe**
- **questions can be asked during the presentation via text channel**
- **produced in cooperation with ESA and IPS, realised at Planetarium Hamburg**
- **Transmission: 2 parallel streams**
 - Main stream: **2k x 2k Fulldome format**
 - Additional stream: 16:9 Full HD format
 - available to all planetariums, independent of software and projection system
 - the stream links will be published some days ahead of the event.
 - along with the stream links, we will provide explanations how to display the stream in the dome
- **Topics**
 - Introduction to Jupiter & moons; JUICE science goals
 - JUICE launch and cruise to jupiter
 - JUICE up close: systems and science instruments
 - JUICE's exploration of the Jupiter system, flybys of the Galilean Moons
- **Speakers**
 - **Christian Erd, JUICE systems & payload manager**
 - **Ignacio Tanco, JUICE spacecraft operations manager**

Speakers:

Dr. Christian Erd is the „chief engineer“ of JUICE. He was already the study manager for the JUICE mission during its development, and has been a key figure in the JUICE project for 14 years. He is our expert also for JUICE's Jupiter and icy moons science goals.

Ignacio Tanco leads the JUICE spacecraft operations unit at ESA's space operations center (ESOC). He has been working on different ESA projects for 22 years.

- **Full dome materials**

- As a fallback option, fulldome visualisations of the stream topics will be available for download, one week ahead of the event:
 - Introduction to Jupiter, Europa, Ganymede and Callisto
 - Ariane 5 launch (2 versions: from „Augen im All“ planetarium show, and 360°-captured footage of the actual JUICE launch – unfortunately only a few seconds time, until the rocket's exhaust hit the camera...)
 - JUICE deployment, and science instruments overview
 - Trajectories to Jupiter and in the Jupiter system
 - JUICE communications, including a fulldome „visit“ to ESOC (from „Augen im All“ planetarium show)
- These visualisations are prepared in part by ESA, and in part by Planetarium Hamburg with support from Experimenta Heilbronn.
- Key materials from ESA will be publicly available for unlimited use
- Some additional materials will be available only for registered participants, and are made available only for use in this event, due to legal reasons. **To receive the full set of materials, please notify IPS of your intent to participate!** Participating planetariums will also be listed on the ESA website, to highlight their participation in the May 7th event.

- **Contact for registration and questions ahead of the event:** Björn Voss,
bjorn.voss@planetarium-hamburg.de

The next steps:

1. Please register to participate!
2. ~10 days ahead of the event, we will send an update email containing download links
3. ~5 days ahead of the event, we will publish the stream links, and send information on how to receive the streams, and how to send your audiences' questions during the event.
4. Also, about 5 days ahead of the event, we will start sending a continuous test stream, to allow everyone to test the reception of the stream at any time.
5. Registration as a participant will be possible right up to the day of the event.