



(Orbital launcher Design competition - ODIN)

Who are we?

ODIN is a competition organised by the Bundesverband studentischer Raumfahrt e.V. (BVSr). The BVSr is the umbrella association of 20 student spaceflight clubs and represents more than 2,000 students.

What do we do?

Student spaceflight groups typically work on suborbital small rockets. Orbital launchers play almost no role in students' practical activities today. Through the ODIN design competition, we want to encourage theoretical work on larger launch vehicles because BVSr sees a skills gap in university education in this area. Our objectives are:

- A student design competition for BVSr member clubs
- Collect subsystem concepts for a (subscale) demonstrator rocket
- Collect scaling concepts from demonstrator to orbital launcher
- Encourage cooperation between member clubs

How does ODIN work?

- Clubs are invited to bring in and further develop their existing know-how
- Individual subsystems of a launcher are addressed in the tasks (propulsion, avionics, structures, payload, etc.)
- Teams can choose the scope of their participation flexibly
- Submissions consist of a concise design overview presenting the subsystem concepts and component designs

Why are we doing this?

Student rocketry has already achieved impressive milestones in recent years:

- **HyEnD** – suborbital flight to 64.4 km in April 2023 with N2ORTH (hybrid propulsion)
- **WARR** – first European student bi-liquid flight with LOX in October 2024

Nevertheless, BVSr recognizes a gap between typical student activity and the skills needed for early-career roles in the launcher sector. ODIN aims to broaden the horizon of student rocket development to address this gap.



E-Mail: odin@bvsr.space



More Information: bvsr.space/odin



How can you support us?

We welcome support for ODIN in the form of:

- Serving as a juror in the evaluation of submissions
- Public endorsement of the competition as a supporter
- Providing prizes for competition winners, e.g. participation in launch campaigns, cash prizes, or in-kind awards

Why support ODIN?

ODIN gives supporters direct access to the next generation of the space sector. It provides an overview of student club capabilities across the German-speaking region.

Other benefits:

- Outreach opportunities as an ODIN supporter
- Insight into the German student spaceflight scene
- Exclusive highlights from jury evaluations for supporters

Monetary or in-kind prizes awarded through ODIN will be transferred to the non-profit club affiliated with any winning team. Donations made in support of ODIN will be acknowledged by BVSr with a donation receipt.



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