

## Proseminar: Astrophysik, Wintersemester 2022/23

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<http://hsweb.hs.uni-hamburg.de/projects/star-formation>

- Termin: Blockveranstaltung am **Montag/Dienstag, 23./24. Januar 2023**
- Ort: Hamburger Sternwarte, *Sonnenbau*
- Vortrag: 20+ Minuten, Vortragsfolien werden als Zusammenfassung/Ausarbeitung gewertet
- 10+ Minuten Diskussion und Nachbesprechung

Zeit	Montag, 23. Januar 2023	
9:00	Einleitung	R. B.
9:30	Das interstellare Medium	Clara Grünwald
10:00	Molekülwolken und Turbulenz	Elif Dülger
10:30	Entstehung massereicher Sterne	Philipp Ulmen
11:00	<b>PAUSE</b>	
11:15	Suche nach extrasolaren Planeten, Methoden & Techniken	Sebastian Ortmann
11:45	Astroseismologie	Janina Albrecht
12:15	<b>Mittagspause</b>	
13:15	Astro-Biologie	Henryk Behrens
13:45	GAIA mission, Ziele und Ergebnisse	Jonas Nitzsche
14:15	<b>PAUSE</b>	
14:45	James Webb Space Telescope (JWST)	Julian Dührkop
15:15	Event Horizon Telescope (EHT)	Niklas Knop
	<b>Dienstag, 24. Januar 2023</b>	
9:30	Gamma Ray Bursts (GRBs)	Nico Kornberger
10:00	Fast Radio Bursts (FRBs)	Achim Främbis
10:30	Big-Bang Nukleosynthese (BBN)	Martin Semmelrodt
11:00	<b>PAUSE</b>	
11:15	Kosmische Hintergrundstrahlung (CMBR)	Niclas Graf
11:45	PLANCK (Satellitenteleskop) Mission	Saif-Ali Akhtar
12:15	<b>Mittagspause</b>	
13:15	Supernova-Dunkle Energie Projekte	Dennis Latta
13:45	LIGO: Gravitationswellenobservatorium	Mark Wehrmann
14:15	<b>PAUSE</b>	
14:45	Entstehung der ersten Sterne	Kjell Rosenow
15:15	Dunkle Materie: astrophys. Hinweise	Lennard Luth
15:45	<b>Abschlussbesprechung</b>	

## Lehrbücher

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- Draine, *Physics of the Interstellar and Intergalactic Medium*, 2011
- Schulz, *The Formation and Early Evolution of Stars*, 2012
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- Bally & Reipurth, *The Birth of Stars and Planets*, 2006
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## References

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