

SFB 1601 Student Seminars – Winter 2025

Date & Time: 31st January, 2025 (Friday), 11:30 – 17:00

Venue: KOSMA Room, PH1 Main Building (Building 321), University of Cologne [[Maps Link](#)]

11:30 – 11:40 (Welcome Address + Introduction Round)		
Session 1		
11:40 – 12:00	A subgrid model for the turbulent circumgalactic medium in massive, high redshift star-forming galaxies: Understanding the [CII] line emission	Lennart Buhmann (PH1, Cologne)
12:00 – 12:20	The Formation of Massive Stars - Confronting Simulations and Synthetic Observations	Birka Zimmermann (PH1, Cologne)
12:20 – 12:40	Massive star formation and core evolution: Combination of 3D core collapse simulations with 1D protostellar disk sub-grid model	Anaïs Pauchet (PH1, Cologne)
12:40 – 13:40 (Lunch Break)¹		
Session 2		
13:40 – 14:00	Giant galaxy formation in the distant Universe	Nikolaus Sulzenauer (MPIfR, Bonn)
14:00 – 14:20	Isolating [CII] galaxy signal from the epoch of reionisation with Line Intensity Mapping	Jonathan Clarke (PH1, Cologne)
14:20 – 14:40	The effect of disorder on the single photon response of kinetic inductance detectors	Kian Syaifoel (PH1, Cologne)
14:40 – 15:00 (Discussion + Coffee Break)²		
Session 3		
15:00 – 15:20	Continuum emission modelling of the massive young stellar object AFGL 2591-VLA 3 (master) + current PhD study	Taishi Ushirogi (PH1, Cologne)
15:20 – 15:40	The impact of cosmic ray heating on the cooling of the low-metallicity interstellar medium	Vittoria Brugaletta (PH1, Cologne)
15:40 – 16:15 (Open Discussion about SFB Student Council & its activities + Feedback)		
16:15 – 17:00 (Games and Socializing activities)³		

¹ The lunch has been arranged at KOSMA Room itself

² We request you to bring your own coffee mug if your office is at PH1 itself.

³ Not mandatory to attend.