

Proseminar Astrophysik, Wintersemester 2014/15

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- Termin: **Freitag, 9. Jan 2015, 9 Uhr**
- Hamburger Sternwarte, Bergedorf, *Sonnenbau*
- Vortrag: 20 Minuten, Vortragsfolien werden als Zusammenfassung/Ausarbeitung gewertet
- + 10 Minuten Diskussion und Nachbesprechung

Programm

Zeit	Topic	Literaturauswahl	Name
9:00 – 9:30	Das Interstellare Medium	Weigert et al. (2009) Breitschwerdt (1998)	Christopher Matthies
9:30 – 10:00	Entstehung massereicher Sterne	Zinnecker & Yorke (2007) Beuther et al. (2007) McKee & Ostriker (2007)	Steffen Albrecht
10:00 – 10:30	Gammablitze	Janka (2011) Janka et al. (2011)	Torben Lange
10:30 – 11:00	Kaffeepause		
11:00 – 11:30	Eigenschaften und Entwicklung von Sternhaufen	Weigert et al. (2009) Binney & Tremaine (2008) Portegies Zwart et al. (2010)	Morten Henken
11:30 – 12:00	Suche nach Exoplaneten: Methoden und Techniken	z.B. Dvorak (2007) Ollivier et al. (2009) Seager (2011)	Felix Thiel
12:00 – 12:30	Planetentstehung	Armitage (2010) Klahr & Brandner (2011) Woolfson (2011)	Mathis Fischer
12:30 – 14:00	Mittagspause		
14:00 – 14:30	Moderne Teleskope und deren Ziele	z.B. ALMA, HERSCHEL, KEPLER, PLANCK, LOFAR, SKA, E-ELT	Katja Limberger
14:30 – 15:00	Entstehung der ersten Elemente: Big-Bang-Nukleosynthese	Weinberg (2008) Kolb & Turner (1994) Pospelov & Pradler (2010) Iocco et al. (2009)	Pascal Stienemeier
15:00 – 15:30	Kosmische Hintergrundstrahlung (CMBR): Entstehung, Fluktuationen	Weinberg (2008) Kolb & Turner (1994) Schneider (2006) Durrer (2008)	Felix Giese
15:30 – 16:00	Kaffeepause		
16:00 – 16:30	Ergebnisse der ESA PLANCK Mission	Overview: Planck Collaboration et al. (2014)	Lukas Heinze
16:30 – 17:00	Entstehung der ersten Sterne	z.B. Bromm et al. (2009); Abel et al. (2002); Glover (2005); Greif (2014)	Karuna Kanes
17:00 – 17:30	Supernovae–Dunkle-Energie Projekte	Perlmutter (2003); Perlmutter & Schmidt (2003); Perlmutter (2005) Riess (2000)	Nils Wind

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