

15th Heidelberg Astronomy Summer School, Aug. 31 – Sep. 4, 2020

Planet formation in protoplanetary disks

Invited Lecturers:

Pablo Benitez Llambay (Niels Bohr Institute, Copenhagen)

Cornelis P. Dullemond (Heidelberg University)

Michiel Lambrechts (Lund Observatory)

Yamila Miguel (Leiden Observatory)

Catherine Walsh (Leeds University)

Science Talk Speakers:

Gesa Bertrang (MPIA), Natalia Dzurkevich (ITA), Lucia Klarmann (MPIA),
Sebastian Marino (MPIA), Paul Molliere (MPIA), Gabriele Pichierri (MPIA)

SOC: Bertram Bitsch, Mario Flock, Paola Pinilla (MPIA)

School program (as of August 24):

Monday, August 31

(Moderator: Paola Pinilla 14:00-17:15)

Time	Lecturer	Topic
10:00 – 10:45	SOC	Welcome & Overview of the School
10:45 – 11:05	Lecturers	Introduction of the lecturers
11:10 – 12:00	Moderators	Split out sessions; motivation of participants
12:00 – 14:00	-	Lunch break
14:00 – 15:00	Pablo Benitez Llambay	Hydrodynamic models I
15:00 – 15:30	-	Coffee break
15:30 – 16:00	Pablo Benitez Llambay	Q & A session
16:00 – 17:00	Pablo Benitez Llambay	Hydrodynamic models II
17:00 – 17:15	-	Questions of the day

Tuesday, September 1

(Moderator: Liz Flores 09:00-12:00)

Time	Lecturer	Topic
09:00 – 10:00	Cornelis Dullemond	Radiative transfer modeling I
10:00 – 10:30	-	Coffee break
10:30 – 11:00	Cornelis Dullemond	Q & A session
11:00 – 12:00	Cornelis Dullemond	Radiative transfer modeling II
12:00 – 14:00	-	Lunch
14:00 – 15:00	Pablo Benitez Llambay	Hands-on session

15:00 – 16:00	Pablo Benitez Llambay	Break, Q & A session
16:00 – 17:00	Pablo Benitez Llambay	Hands-on session
17:00 – 17:15	-	Questions of the day

Wednesday, September 2

(Moderator: Mario Flock 09:00-12:00)

Time	Lecturer	Topic
09:00 – 10:00	Catherine Walsh	Disks / Chemistry models / Observations I
10:00 – 10:30	-	Coffee
10:30 – 11:00	Catherine Walsh	Q & A session
11:00 – 12:00	Catherine Walsh	Disks / Chemistry models / Observations II
12:00 – 14:00	-	Lunch
14:00 – 15:00	Cornelis Dullemond	Hands-on session
15:00 – 16:00	Cornelis Dullemond	Break, Q & A session
16:00 – 17:00	Cornelis Dullemond	Hands-on session
17:00 – 17:15	-	Questions of the day

Thursday, September 3

(Moderators: Bertram Bitsch 09:00-12:00; Camille Bergez 14:00-17:15)

Time	Lecturer	Topic
09:00 – 10:00	Michiel Lambrechts	Planet Formation I
10:00 – 10:30	-	Coffee
10:30 – 11:00	Michiel Lambrechts	Q & A session
11:00 – 12:00	Michiel Lambrechts	Planet Formation II
12:00 – 14:00	-	Lunch
14:00 – 14:30	Natalia Dzyurkevich	Science Talk: Turbulence in Proto-planetary Disks
14:30 – 15:00	Gesa Bertrang	Science Talk: Polarization 101: The Why, the How, the What - lifting the mystery around this powerful diagnostic tool
15:00 – 16:00		Break, Q & A session
16:00 – 16:30	Lucia Klarmann	Science Talk: NIR Interferometry - zooming into the region of terrestrial planet formation
16:30 – 17:00	Gabriele Pichierri	Science Talk: Dynamical fingerprints in the exoplanets sample
17:00 – 17:15	-	Questions of the day

Friday, September 4

(Moderators: Lucia Klarmann 09:00-12:00; Samantha Brown 14:00-15:00)

Time	Lecturer	Topic
09:00 – 10:00	Yamila Miguel	Exoplanet atmospheres
10:00 – 10:30	-	Coffee
10:30 – 11:00	Yamila Miguel	Q & A session
11:00 – 12:00	Yamila Miguel	Exoplanet interiors
12:00 – 14:00	-	Lunch
14:00 – 14:30	Paul Molliere	Science Talks: From exoplanet spectra to planet formation
14:30 – 15:00	Sebastian Marino	Science Talk: Radial structure of exoKuiper belts
15:00	-	End of the School

