ECOLE EVRY SCHATZMAN 2010 : STAR FORMATION IN THE LOCAL UNIVERSE (Aussois, France)

Timetable	*MONDAY 27/9*	*TUESDAY 28/9*	*WEDNESDAY 29/9*
08h45-09h00	T. Montmerle & C. Charbonnel : Welcome		
	C1a. B. Elmegreen : Introductory course: Star formation at all scales, theory and observations (I)	**C1b. B. Elmegreen : Introductory course: Star formation at all scales, theory and observations (II)**	**C4a. F. Palla The history of star formation in star-forming regions (I)**
09h00-10h00	C1.1. Star formation on galactic scales: empirical laws	C1.4. Triggered star formation	C4.1. Star formation history in SFRs from A(dams) to Z(innecker)
10h00-11h00	C1.2. Star formation in spiral arms	C1.5. Star formation during galaxy formation	C4.2. Protostellar and PMS evolution
11h00-11h30	**COFFEE**	**COFFEE**	**COFFEE**
		C2b. F. Bournaud : The formation of stars and structures in interacting galaxies (II)	C4.3. Tools to decipher the SFH: deriving and calibrating stellar ages
11h30-12h30	C1.3. Star formation patterns and hierarchies	C2.4. The role of mergers in the star formation budget of galaxies	
12h30-16h00	**LUNCH**	**LUNCH**	**LUNCH**

Timetable	*MONDAY 27/9*	*TUESDAY 28/9*	*WEDNESDAY 29/9*
	C2a. F. Bournaud : The formation of stars and structures in interacting galaxies (I)	**C5a. S. Hony The earliest phases of (high-mass) star formation in our Galaxy and nearby galaxies (I)**	**C5b. F. Motte The earliest phases of (high-mass) star formation in our Galaxy and nearby galaxies (II)**
16h00-17h00	C2.1. Gas dynamics in interacting galaxies	C5.1. Relations between the ISM and star formation in the Milky Way and in nearby galaxies	C5.2. Constraints on the origin of the stellar IMF
		C3a. F. Boulanger : From the multi-phase ISM to galactic and extragalactic star formation (I)	
17h00-18h00	C2.2. Global star formation in colliding galaxies ("starbursts")	C3.1. Interstellar dust: an actor and tracer of ISM structure and star formation	C5.3. Star formation efficiencies
18h00-19h00	C2.3. Formation of giant star clusters, globular clusters, and formation of larger-scale structures	C3.2. The energetics of the multiphase ISM in relation to star formation	C5.4. Earliest phases of high-mass star formation
19h00-21h00	**DINNER**	**DINNER**	**DINNER**
21h00-21h30	-------	S1: *F. Bournaud: Numerical simulations of star formation at the scale of galaxies and the scale of molecular clouds*	S2: *A. Fuente: Chemistry in galactic and extragalactic star forming regions*

Timetable	*THURSDAY 30/9*	*FRIDAY 1/10*
	C4. F. Palla **Reconstructing the history of star formation in star-forming regions (II)**	**C7. A. Maeder** **Massive star formation**
09h00-10h00	C4.4. Stellar populations as tracers of star formation: from the solar vicinity to galactic scales	C7.1. Formation of massive stars. Limits on the accretion rates
	C3b. F. Boulanger : **From the multi-phase interstellar medium to galactic and extragalactic star formation (II)**	
10h00-11h00	C3.3. An introduction to modeling tools to interpret infrared observations of gas and dust	C7.2. Accretion models for massive stars
11h00-11h30	**COFFEE**	**COFFEE**
	C6a. R. Klessen **Molecular clouds and the origin of the IMF (I)**	
11h30-12h30	C6.1. Formation of molecular clouds	C7.3. The effects of rotation in star formation
12h30-16h00	**LUNCH**	**LUNCH**

Timetable	*THURSDAY 30/9*	*FRIDAY 1/10*
	C6b. R. Klessen **Molecular clouds and the origin of the IMF (II)**	**14h00-15h00 : Massive Stars and High-Energy Phenomena**
16h00-17h00	C6.2. Origin and statistical characteristics of ISM turbulence	14h00-14h30 S4: *D. Smith: Pulsars and massive stars*
17h00-18h00	C6.3. Star (cluster) formation in molecular clouds	14h30-15h00 S5: *T. Montmerle: Galactic and extragalactic hot plasmas*
18h00-19h00	C6.4. Stellar initial mass function	
		15h00-15h30 T. Montmerle & C. Charbonnel: Evaluation of the school and Concluding remarks
19h00-21h00	**DINNER**	**CLOSING OF THE SCHOOL**
21h00-21h30	S3: *M. Gounelle: Convergent flows and the origin of the solar system*	