	Week 1	Lecture = 80-90mins				
tentative times		Monday 07/27	Tuesday /07/28	Wednesday 07/29	Thursday 07/30	Friday 07/31
9:00-10:30 am	Lecture 1	Roadmap	Kinetic theory: waves and basic instabilities	Kinetic theory: turbulence	Particle acceleration	Particle acceleration
		Noemie Globus	**Dmitri Uzdensky**	**Kris Klein**	**Anatoly Spitkovsky**	**Anatoly Spitkovsky**
10:30-11:00 am	Coffee break					
11:00 am-12:30 pm	Lecture 2	Fluid theory: waves and basic instabilities	Fluid theory: reconnection	Fluid theory: dynamos	Space Plasmas	Particle acceleration
		Ellen Zweibel	**Ellen Zweibel**	**James Beattie**	**Kris Klein**	**Anatoly Spitkovsky**
12:30-2:00 pm	Lunch break					
2:00-3:30 pm	Lecture 3	Fluid theory: turbulence (hydro)	Kinetic theory: reconnection	Kinetic theory: collisionless shocks	Space Plasmas	Fusion plasmas: tokamaks
		James Beattie	**Dmitri Uzdensky**	**Anatoly Spitkovsky**	**Kris Klein**	**Steve Cowley**
3:30-4:00 pm	Coffee break					
4:00-5:30 pm	Lecture 4	Kinetic theory: foundations / waves	Fluid theory: turbulence (MHD)	Poster Session	Fusion plasmas: tokamaks	Fusion plasmas: stellarators
		Dmitri Uzdensky	**James Beattie**	Chair: TBD	**Steve Cowley**	**Steve Cowley**
6:00-8:00 pm				**Social Dinner 1**		

Saturday 08/01 - Sunday 08/02 Visit to the Observatorio Astronómico Nacional (OAN).

	Week 2	Lecture = 80-90mins				
tentative times		Monday 08/03	Tuesday 08/04	Wednesday 8/5	Thursday 8/6	Friday 8/7
		MORNING OFF - GOING DOWN FROM OAN				
9:00-10:30 am	Lecture 1		Observations: NS	Observations: NS	Observations: FRBs	Jets and Winds
			TBD	TBD	**Bryan Gaensler**	**Roger Blandford**
10:30-11:00 am	Coffee break					
11:00 am-12:30 pm	Lecture 2		Theory: NS magnetospheres and nebulae	Theory: NS magnetospheres and nebulae	FRB: theory	Observations: Multi-messenger Frontier
			Ashley Bransgrove	**Ashley Bransgrove**	**Amir Levinson**	**Anatoli Fedynitch**
12:30-2:00 pm	Lunch break					
2:00-3:30 pm	Lecture 3	GR toolkit	Observations: BH	Observations: BH	Observations: BH /transients	Cosmic Rays
		John Mehlhaff	TBD	TBD	**Alan Watson**	**Noémie Globus**
3:30-4:00 pm	Coffee break					
4:00-5:30 pm	Lecture 4	Relativistic and radiative plasmas	Relativistic and radiative plasmas	Black Hole accretion I	Black Hole accretion II	Closing remarks
		Amir Levinson	**Amir Levinson**	**Roger Blandford**	**Roger Blandford**	**Noémie Globus**
					Social Dinner 2	