

Plasma Astrophysics Workshop

At LANL, there is a diversity of ongoing plasma astrophysics related research activities. P-24 is organizing a one day workshop with the loose topic *Plasma Astrophysics*. We include nascent laboratory experiments, theory, computation, space satellite observation, and more.

Strategic objectives

1. Educate ourselves on the diversity of plasma astrophysics related research at LANL.
2. Identify timely topics in plasma astrophysics which can benefit from LANL experimental/theoretical collaboration, *leading ultimately to high quality research proposals for submission to LDRD and external funding agencies (e.g., DOE-OFES, NASA, etc.)*.
3. Identify plasma astrophysics research areas that are tied to the stewardship mission (e.g., ASCI code validation).
4. Nurture and create new collaborative research with New Mexico and UCRD universities.

Schedule & Location

Friday, July 11, 8:00AM to 5PM, Motorola Building, AMTL Conference Room

Contacts

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Website http://wsx.lanl.gov/RSX/Astro_workshop/Astro_workshop_homepage.htm

Format

1. No registration fee!
2. 12 half hour talks (20 min + discussion time), provide overview of LANL experimental/theoretical/computational research in plasma astrophysics, space physics
3. panel discussion session
4. Good food and drink
5. We welcome non-invited and student contributions, and will schedule a poster session if warranted (no responses yet).
6. Required attendance for P-24 plasma physics summer school students

Schedule

breakfast	8:00 AM	continental
Intrator	8:30 AMP-24	welcome
Prager	8:45 AMU Wisc	perspective from outside LANL
Li	9:15 AMX-1	Magnetized Universe project, link to expermnts
Wilde	9:45 AMX-2	astrophysical jets
break	10:15 AM	Coffee, etc.
Colgate	10:30 AMT-6	survey of experiments vs burning questions
Kronberg	11:00 AMIGPP	search for magnetic structure
Birn	11:30 AMNIS-1	satellite data and computations
lunch	12:00 PM	lunch in house by Hot Rocks
Winske	1:00 PMX-1	collisionless shocks
Lapenta	1:30 PMT-15	computations beyond MHD
Wang	2:00 PMP-24	MRI, dynamo, FMP experiment
break	2:30 PM	Coffee, etc.
Tang	2:45 PMT-15	collimated jets
Intrator	3:15 PMP-24	reconnection, kink, RSX experiment
Cobble	3:45 PMP-24	TRIDENT jet experiments
panel discussion	4:15 PM	Colgate, Li, Prager, Intrator, Lapenta and/or ??

please register at the beginning or during the day so we know how many attendees