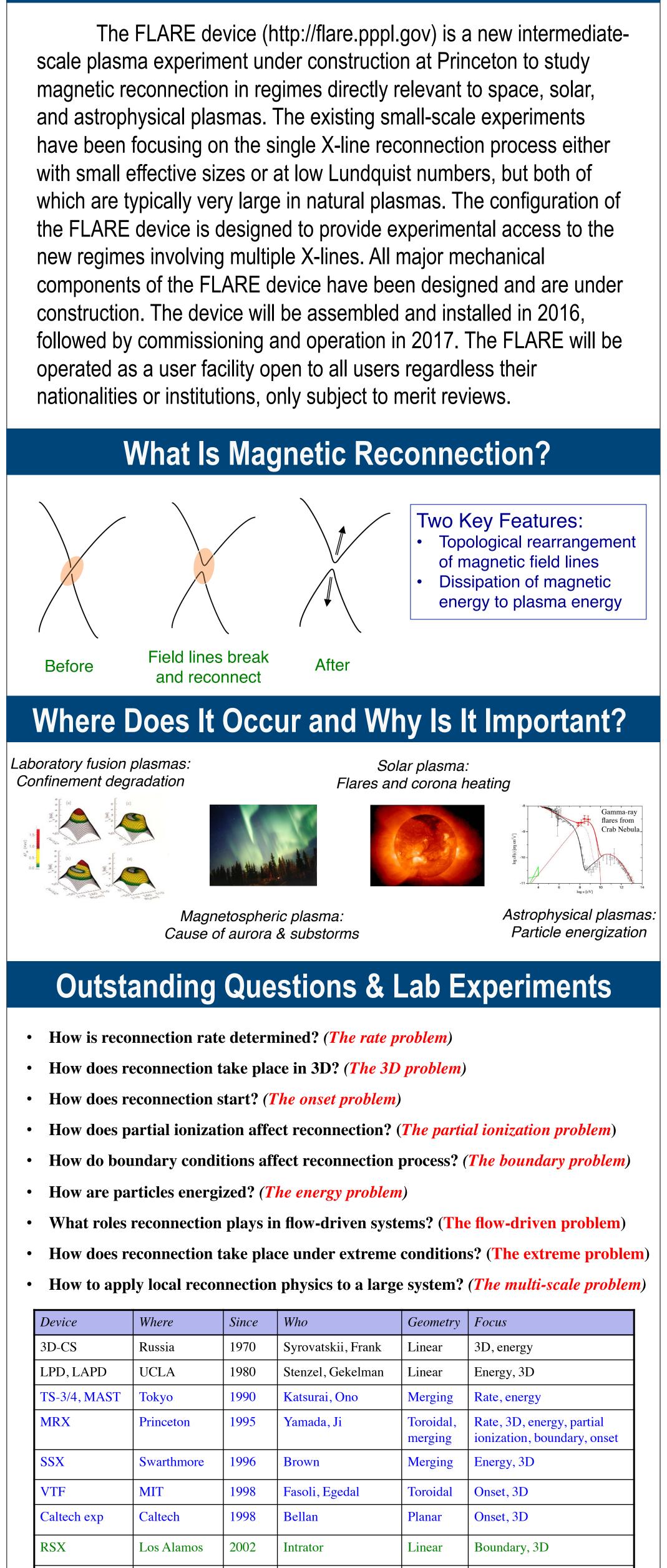


Abstract



www.PosterPresentations.cor

RWX

Laser plasmas

VINETA I

TREX

FLARE

HRX

2002

2006

2012

2013

2013

2015 Ren +

Forest

Nilson, Li, Zhong,

Dong, Fox, Fiksel

Grulke, Klinger

Egedal, Forest

Linear

Planar

linear

Toroidal

Toroidal

Boundary

Energy

3D, energy

Flow-driven. extreme

Wisconsin

UK, China,

Max-Planck

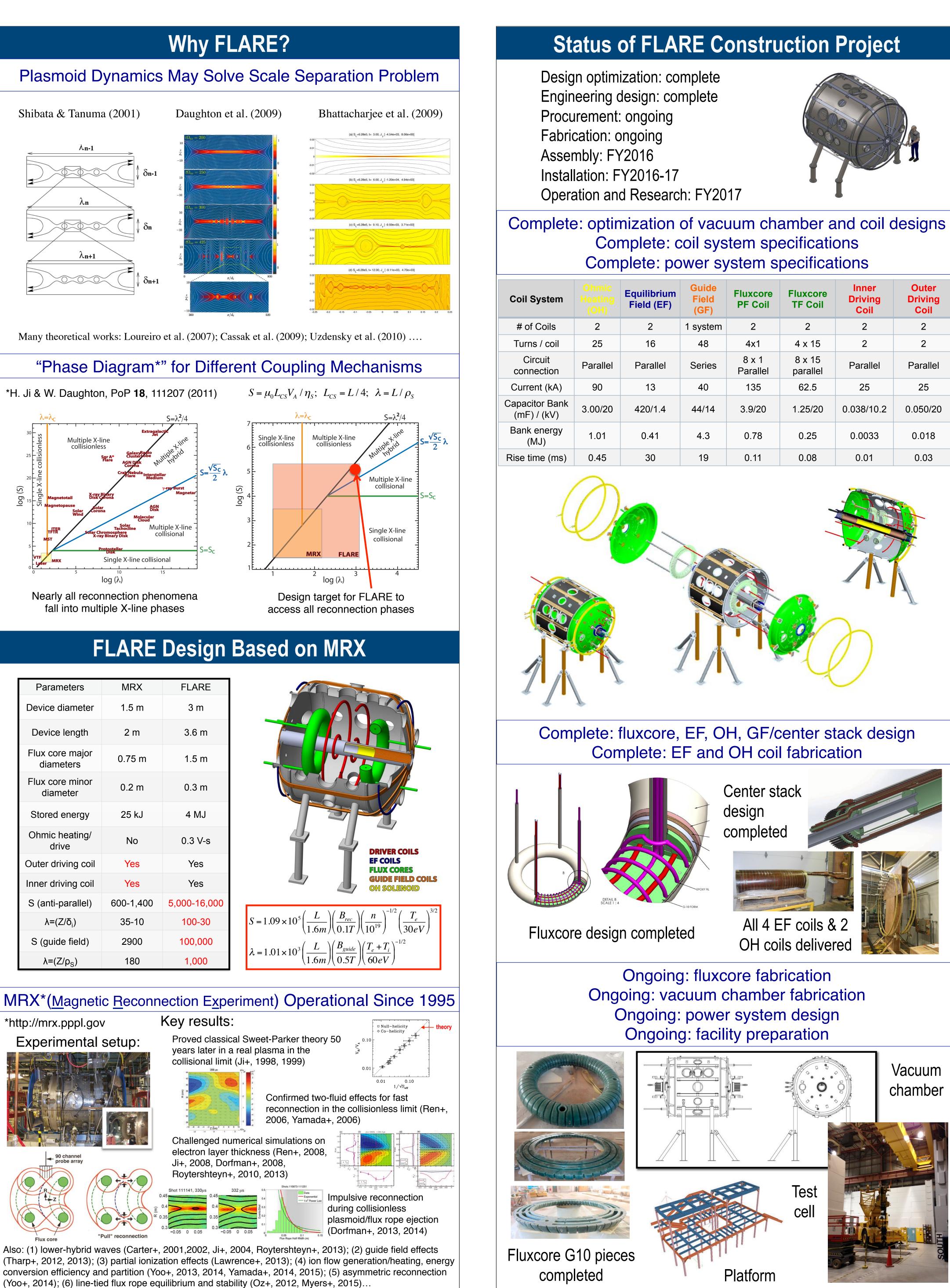
Wisconsin

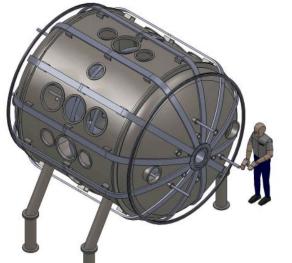
Princeton

Harbin, China

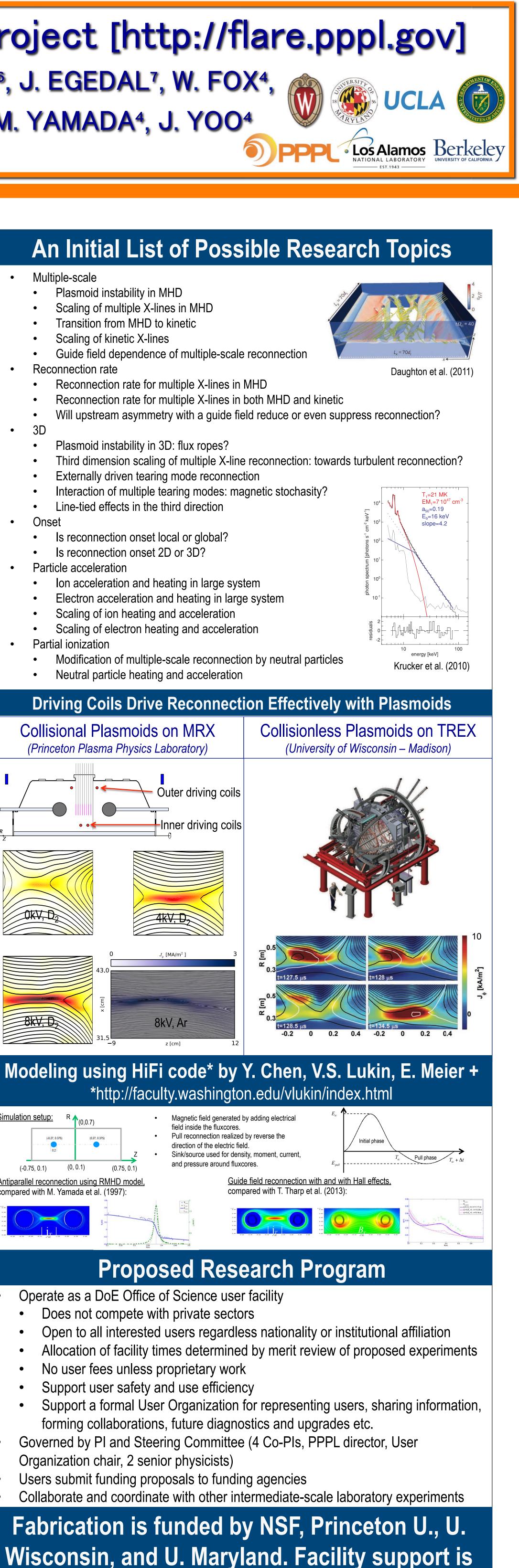
Rochester

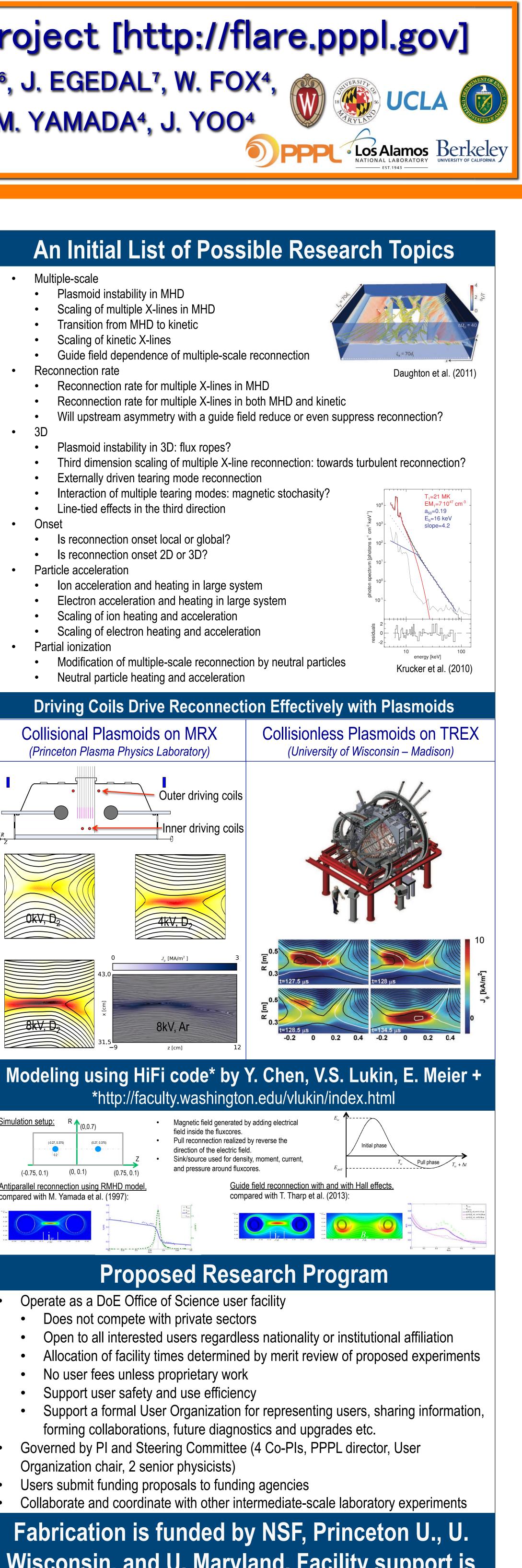
The Status and Plans for the Upcoming FLARE (Facility for Laboratory Reconnection Experiments) Project [http://flare.pppl.gov] H. JI', S. BALE², A. BHATTACHARJEE¹, T. CARTER³, Y. CHEN⁴, N. CROCKER³, R. CUTLER⁴, W. DAUGHTON⁵, J. DRAKE⁶, J. EGEDAL⁷, W. FOX⁴, P. HEITZENROEDER⁴, J. JARA-ALMONTE¹, M. KALISH⁴, C. MYERS⁴, S. PRAGER¹, Y. REN⁴, J. SARFF⁷, J. WALLACE⁷, M. YAMADA⁴, J. YOO⁴ ¹Princeton U., ²UC-Berkeley, ³UCLA, ⁴PPPL, ⁵LANL, ⁶U. Maryland, ⁷U. Wisconsin-Madison

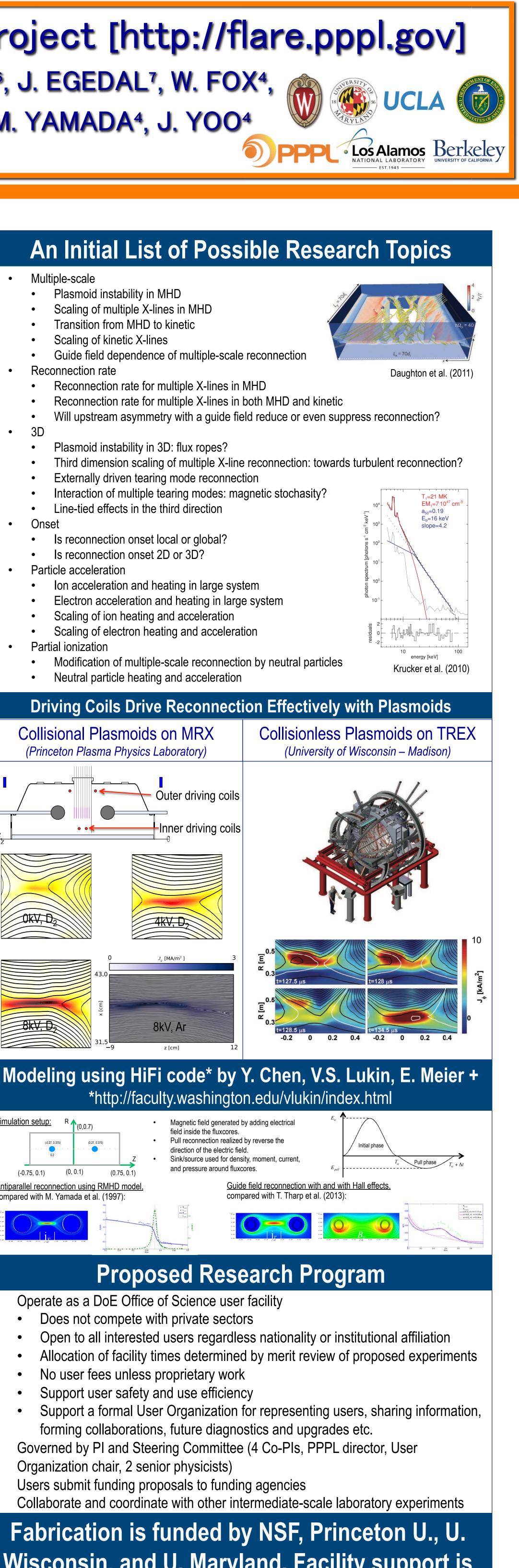




oil System	Ohmic Heating (OH)	Equilibrium Field (EF)	Guide Field (GF)	Fluxcore PF Coil	Fluxcore TF Coil	Inner Driving Coil	Outer Driving Coil
# of Coils	2	2	1 system	2	2	2	2
Turns / coil	25	16	48	4x1	4 x 15	2	2
Circuit connection	Parallel	Parallel	Series	8 x 1 Parallel	8 x 15 parallel	Parallel	Parallel
urrent (kA)	90	13	40	135	62.5	25	25
pacitor Bank mF) / (kV)	3.00/20	420/1.4	44/14	3.9/20	1.25/20	0.038/10.2	0.050/20
ank energy (MJ)	1.01	0.41	4.3	0.78	0.25	0.0033	0.018
se time (ms)	0.45	30	19	0.11	0.08	0.01	0.03







<u>Sim</u>	Ilation	<u>setup:</u>
		(-0.27, 0
	(-0.75	5, 0.1)
		<u>l reconr</u> with M.
0.000 0.00 0.00	0	
0.00- 0.00- 0.20- 0.00- 0.00- 0.00-		j _T
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	•	Do
	•	Op
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provided by DoE Fusion Energy Sciences Office