

Planned Outcome: Better Understanding of Connection of Edge Physics and Plasma Facing Materials

- **Additional outcome:**

- Succinct identification of the gaps in our understanding and our ability to bridge the gap.

The focus is on a true power-producing reactor beyond ITER.

- **Two different types of 'gap':**

- Things we understand well enough but don't know what to do about it

(e.g. disconnect between what the physicists expect to come out of the plasma and what the materials people believe they can handle)

- Gaps in our actual understanding

Here, in particular, the interaction with edge modeling is a major part of the issue

Panel Discussion: Build a Discussion on How Future Facilities Might Address the Two Key Gaps

What features of the facilities are applicable, what experiments might be done, and what additional features might need to be added to these facilities, or even entirely new facilities, to address them

- **Agenda:**
 - Panel present one or two viewgraphs:
 - Brief introduction to the device
 - Summarize how the device will address the gaps identified
 - Panel answer clarifications/questions
 - Open up the floor for more general discussion
- Keep the discussion focused on addressing the gaps via new devices:
 - Including gaps that ITER may fully or partly address
- Anticipated Panel outcome:
 - Matrix of issues and devices that address them

Issues and Devices That Address Them

Issue	ITER	PMI Facility	FNSF-ST	FNSF-AT
Hot wall				
Fluence				
Pulse length				
ELM handling				
Disruption handling				