**TG Edge&Divertor**

**Subgroup Fueling & Exhaust**

**Gas fueling Kick off**

**08.02.2022 from 1000 to 1055**

**Attendees:**

Thierry, Philipp, Maciej, Marcin, Erhui, Golo. Victoria and Erik joined in progress.

**Meeting objective:**

Bring everyone on the same page, define roles, project goal, communication and documentation.

**Introduction round:**

Maciej brings extensive experience with the divertor gas inlet system and knows the gaps from last campaign. His interest is in Feedback control.

Philipp is interested in SOL transport in particular the connection between the MPM and He beam.

Erhui would like to utilize H and CH4 puffing to determine S/XBeff with the Jülich Endoscopes.

Marcin is overseeing the proposal process as TG Edge&Divertor coordinator. His interests are along Maciejs line regarding feedback fueling for steady state plasmas but also understanding the physics behind it.

Golo is the link to the topical group Scenarios and is interested in the effect of gas fueling on core performance.

Thierry is interested in using H injections as a recycling proxy as well as studying on how far core fueling is feasible with gas injection.

**Feedback round:**

Marcin pointed out the importance of identifying gaps in the proposals and that he would wish for this group to continue working together past the proposal process as an open discussion platform for future analysis.

Overlap in topics will be tracked in the excel sheet. If topics are discussed in other groups, links to the groups and contact person will be provided for transparency.

A discussion was held about what defines a non perturbative gas injection. A difference between the core and the SOL was made. PRad was proposed as a metric on how perturbative an injection would be to the core.

The topic “Impurity edge screening” is covered by the TG Impurity.

“Edge impurity seeding” will be discussed in the Subgroup Detachment

“Recycling proxy” will be covered by Thierry and Erhui

“Core fueling” will be covered by Thierry

“Operational” questions regarding the He beam are covered by Erik.

“Inter flux-tube transport” as a link to Subgroup SOL transport will be covered by Philipp in close cooperation with Vale as the Subgroup SOL transport coordinator. There is also additional overlap with TG Impurity.

“Link to TG Scenarios” is covered by Golo, Thierry and Maciej.

**Action items:**

Next meeting is as scheduled on February 15th. Drafts for proposals will be prepared based on the assignment of the main topics and discussed in that meeting. Agenda will be published on Monday.