

September 7, 2015

KAGRA ISC

Electrical Components Layout

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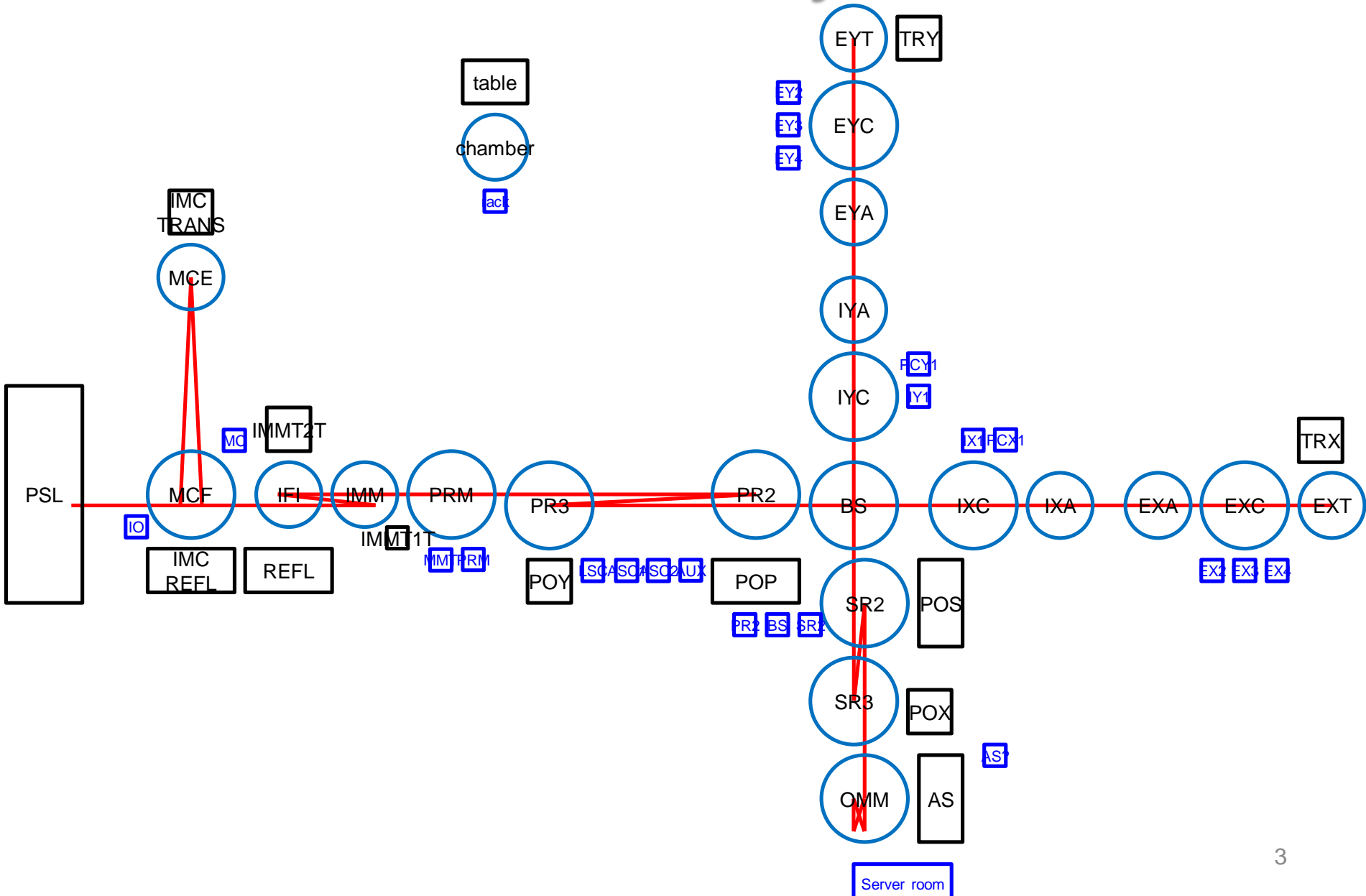
Ando Group

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Scope and Disclaimer

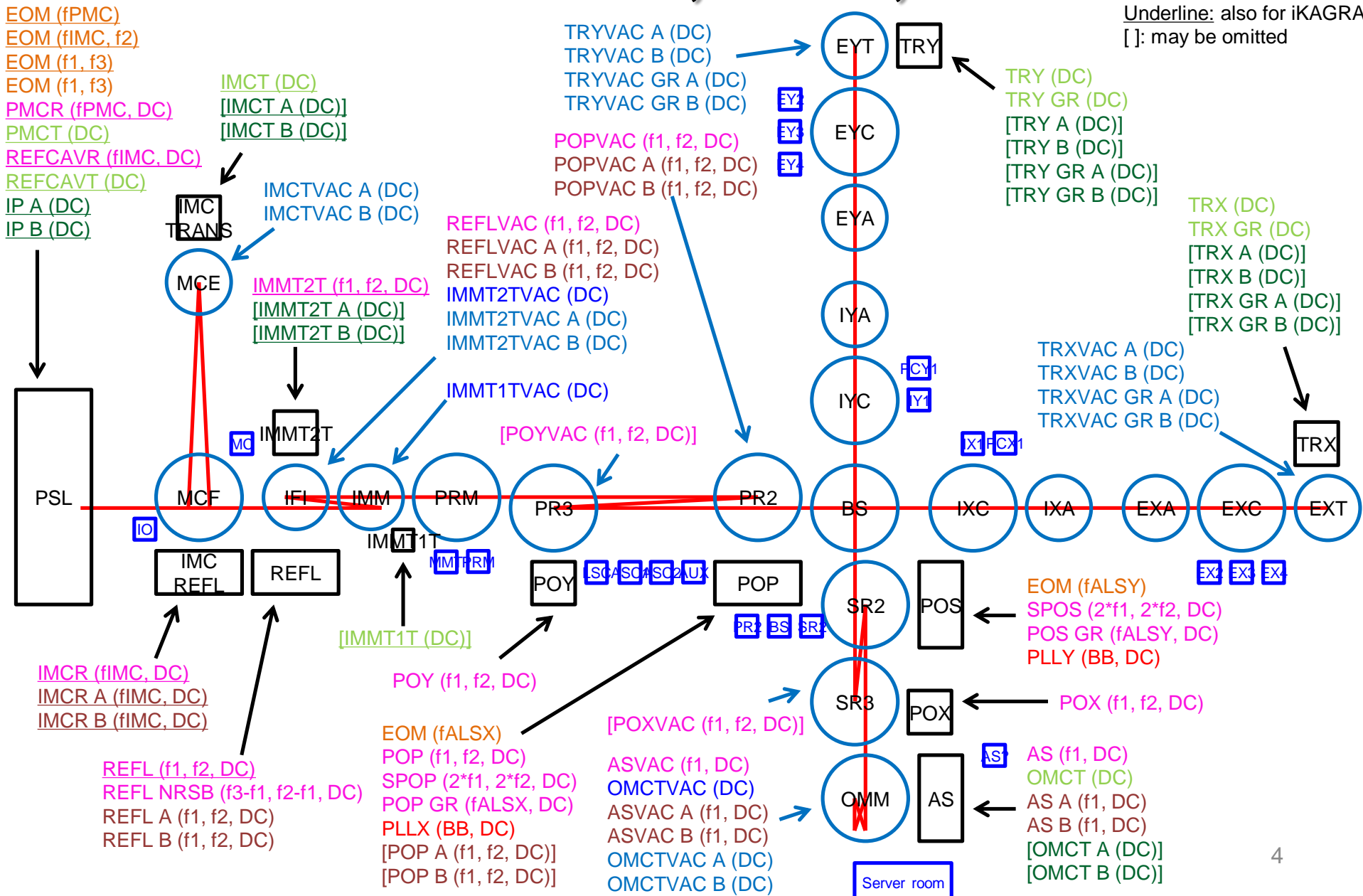
- Draw rough layout of electrical components (RF distribution, PD/QPDs, servo boards) for KAGRA ISC
- Cameras and picomotors are not included
- Components for ISS, ALS, and OMC are very uncertain
- “AS rack” is currently not on the rack list
- JGW-D1402908 ones are used also for iKAGRA
- References:
 - JGW-D1402908 (IMC servo topology)
 - JGW-D1402984 (Cabling around PSL+IMC)
 - JGW-D1100425 (electronics racks layout)
 - JGW-D1402831 (what’s inside electronics racks)
 - JGW-T1402982 (list of ISC detection ports)
 - Wiki/OutputTables (list of output tables)

KAGRA Layout

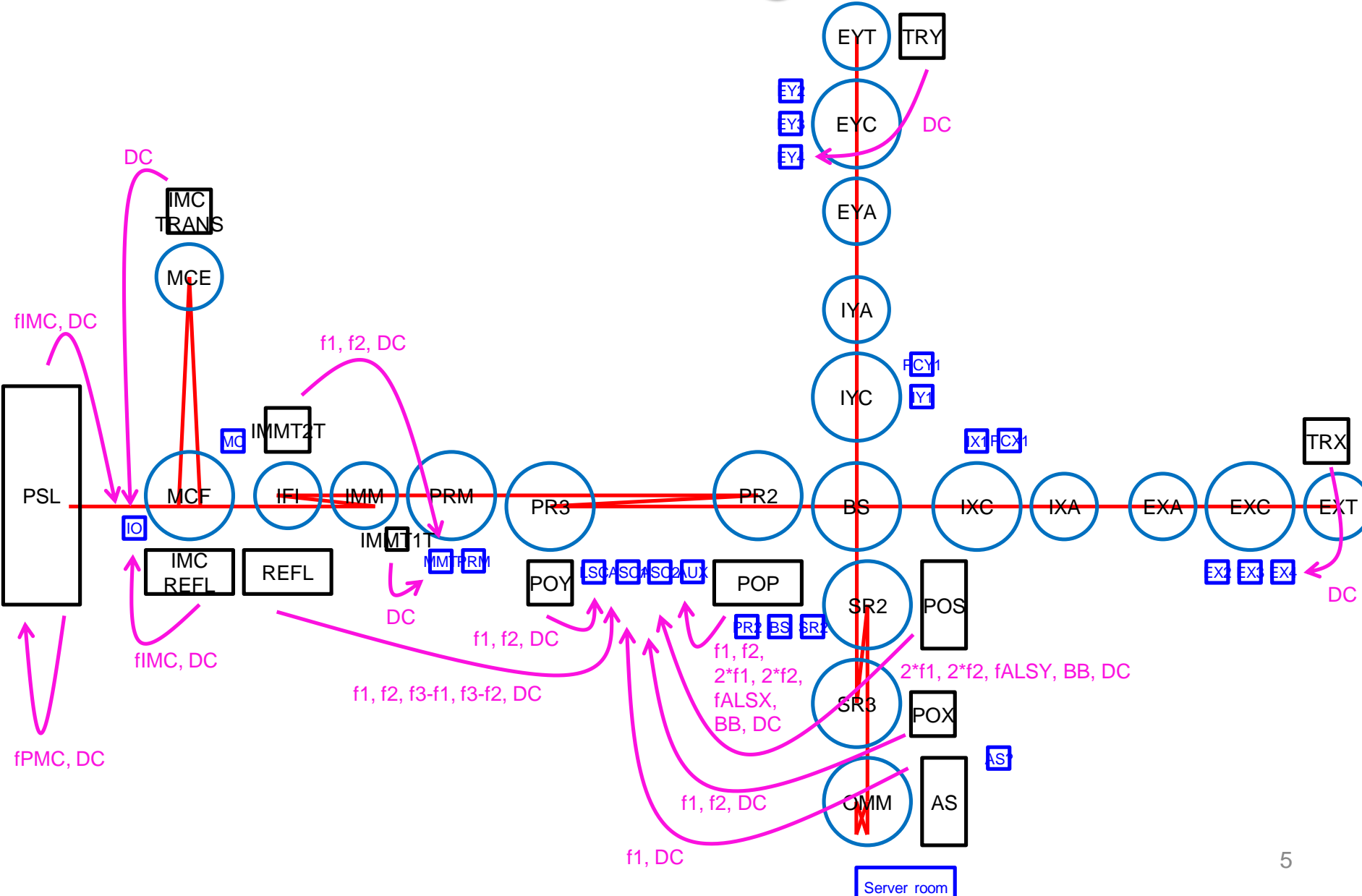


List of EOMs, PDs, QPDs

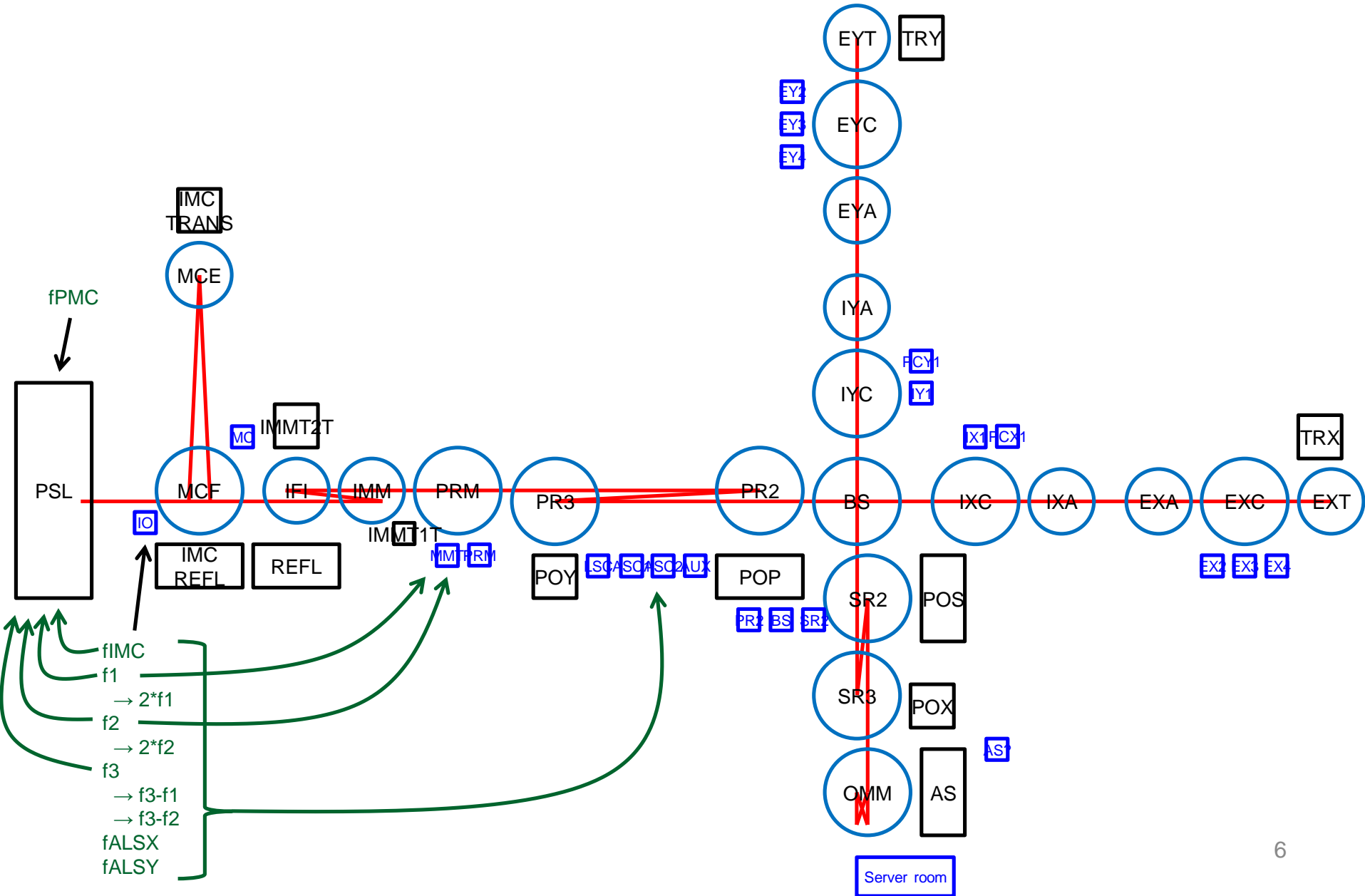
Underline: also for iKAGRA
[]: may be omitted



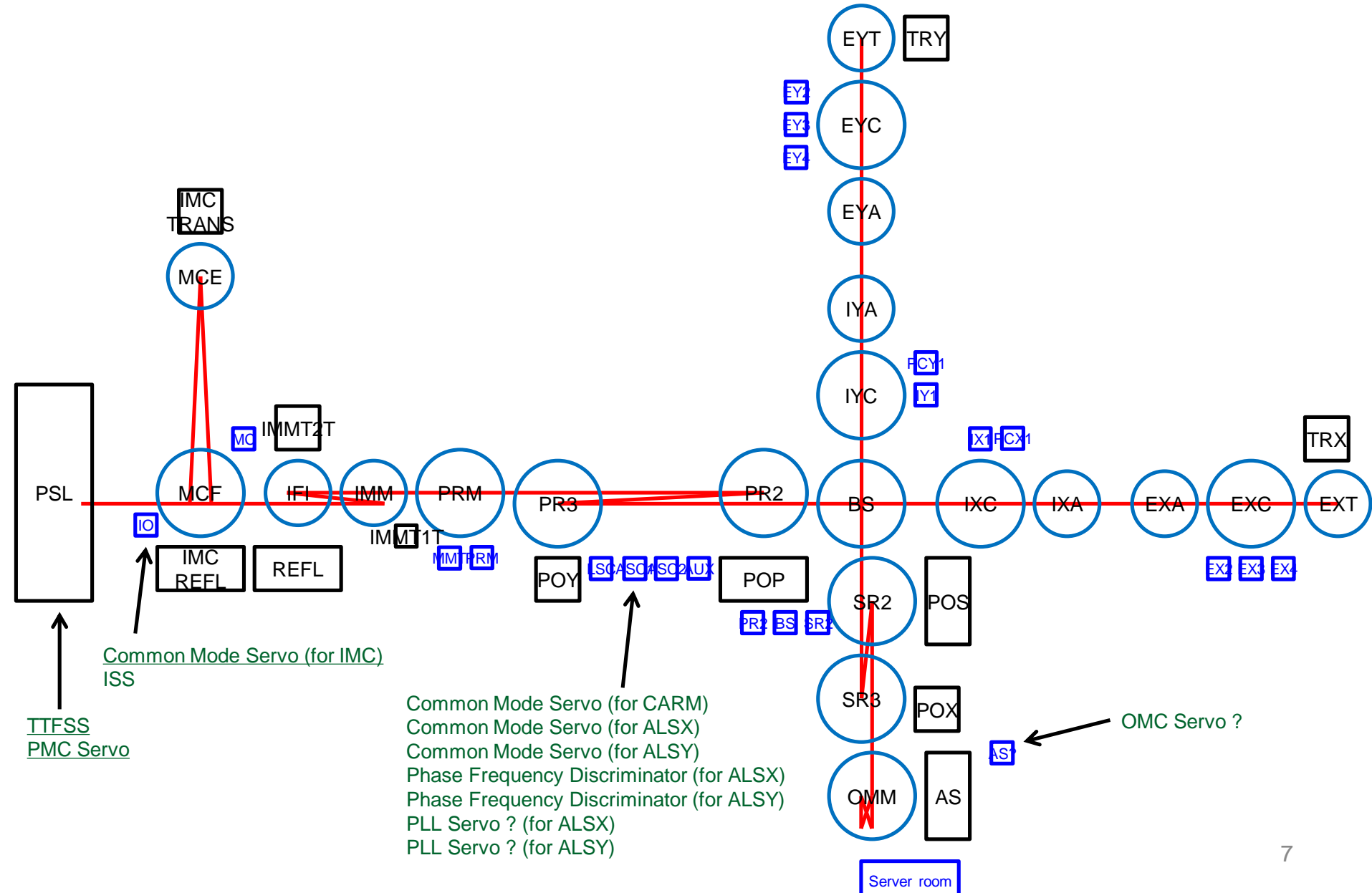
Where Do Signals Go



RF Generation and Distribution

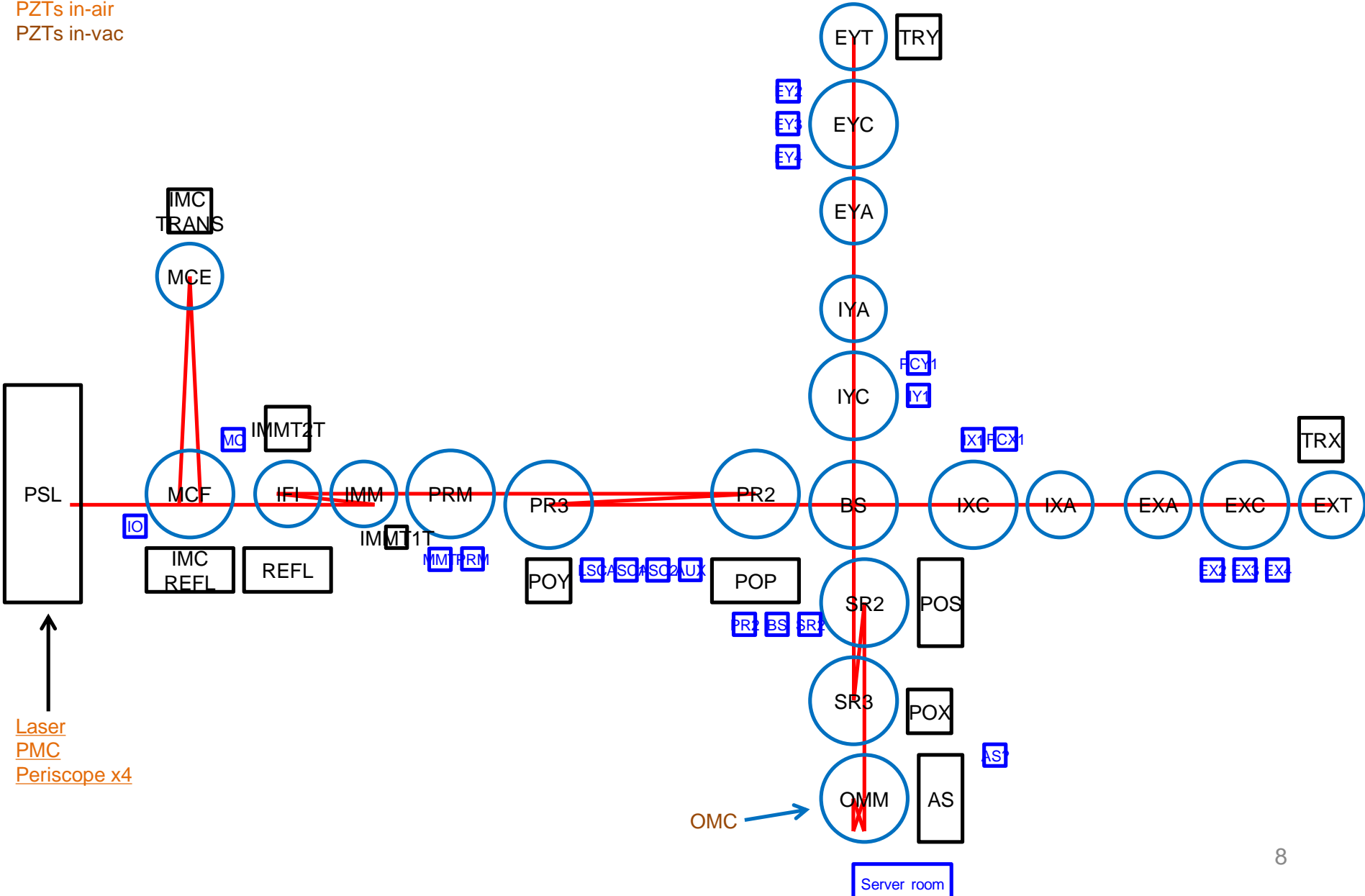


List of Servo Boards



List of PZTs

PZTs in-air
PZTs in-vac



List of Picomotors

picomotors in-air
picomotors in-vac

