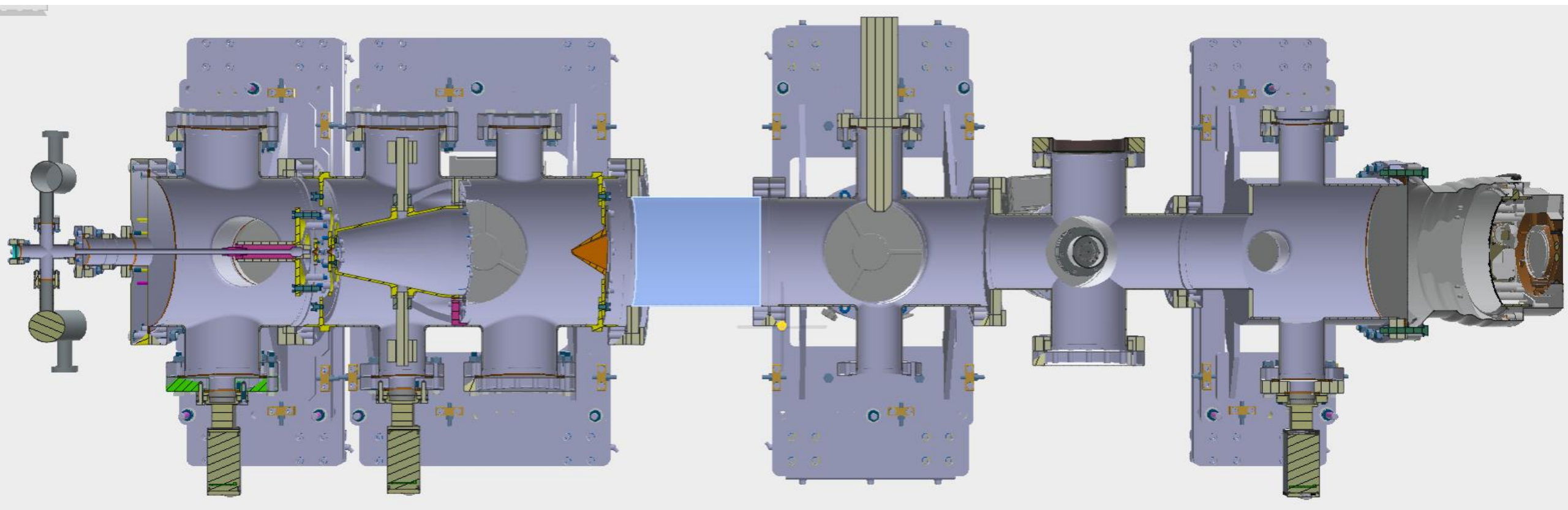


LHC integration update

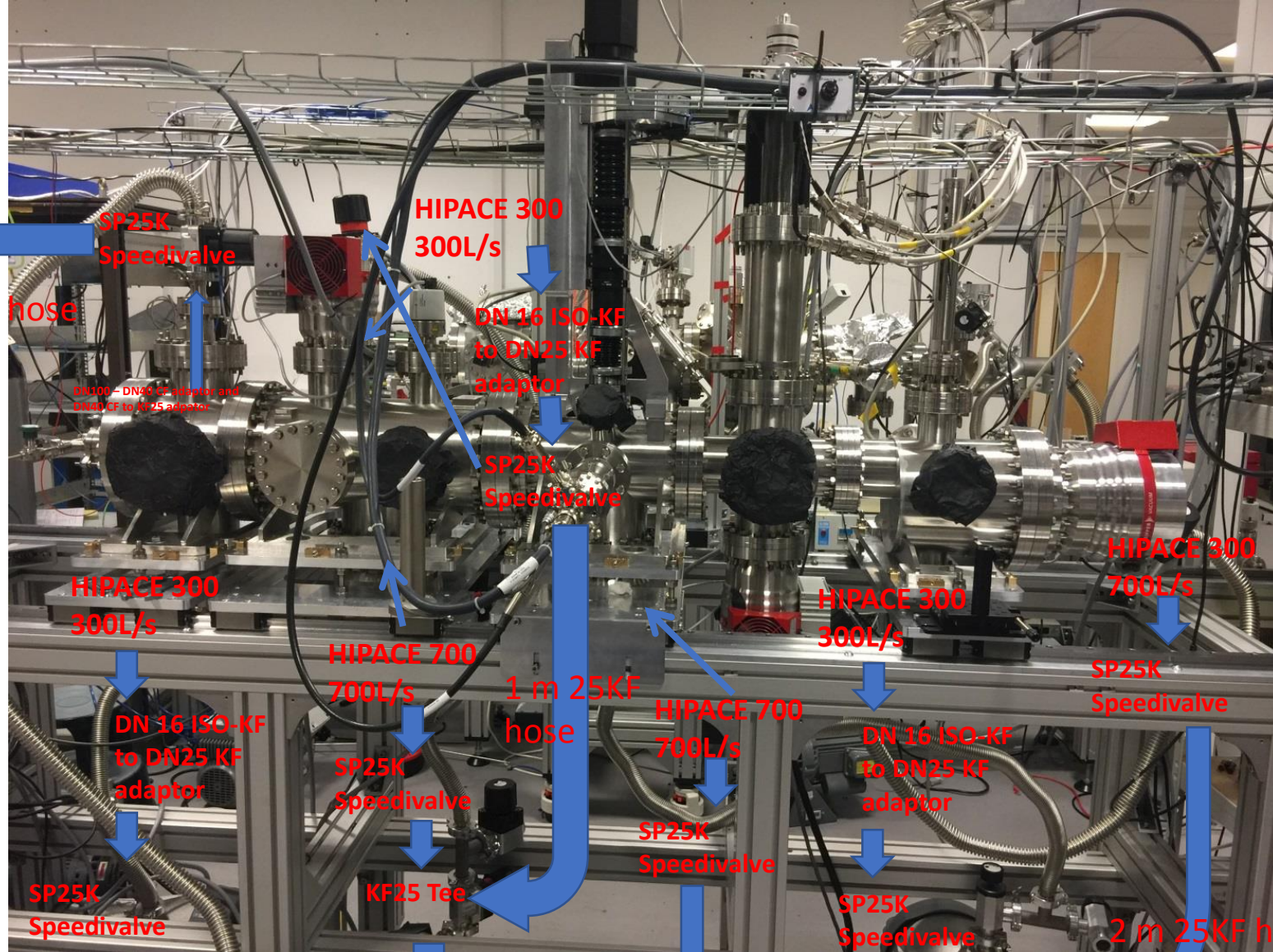
2018-11-15
Marton Ady

Current setup at Cockcroft (“version 2”)



3D model: Tom Dodington

Slide: Hao Zhang



nXDS10i scroll pump from Edwards

2 m 25KF hose

This Channel is used for initial pumping, will be turned of when Turbo turns on.

HIPACE 300 300L/s

DN 16 ISO-KF to DN25 KF adaptor

SP25K Speedivalve

HIPACE 300 300L/s

HIPACE 700 700L/s

1 m 25KF hose

HIPACE 300 300L/s

HIPACE 300 700L/s

SP25K Speedivalve

SP25K Speedivalve

SP25K Speedivalve

Kf25 Tee

SP25K Speedivalve

HIPACE 700 700L/s

SP25K Speedivalve

SP25K Speedivalve

SP25K Speedivalve

2 m 25KF hose

1 m 25KF hose

nXDS15i scroll pump from Edwards

0.5 m 25KF hose

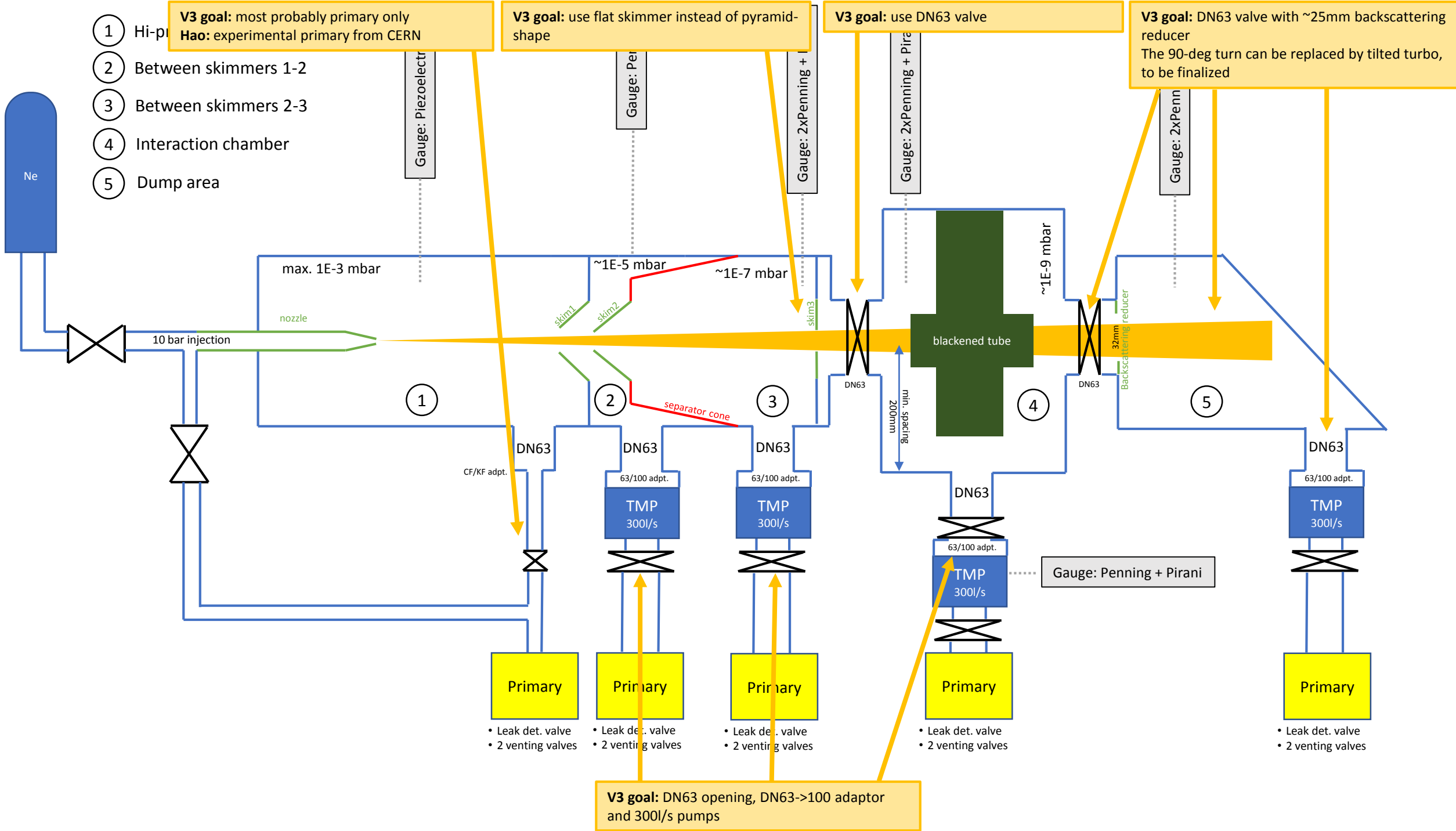
nXDS15i scroll pump from Edwards

0.75 m 25KF hose

2* Kf25 Tee

1 m 25KF hose

nXDS15i scroll pump from Edwards



Goal:

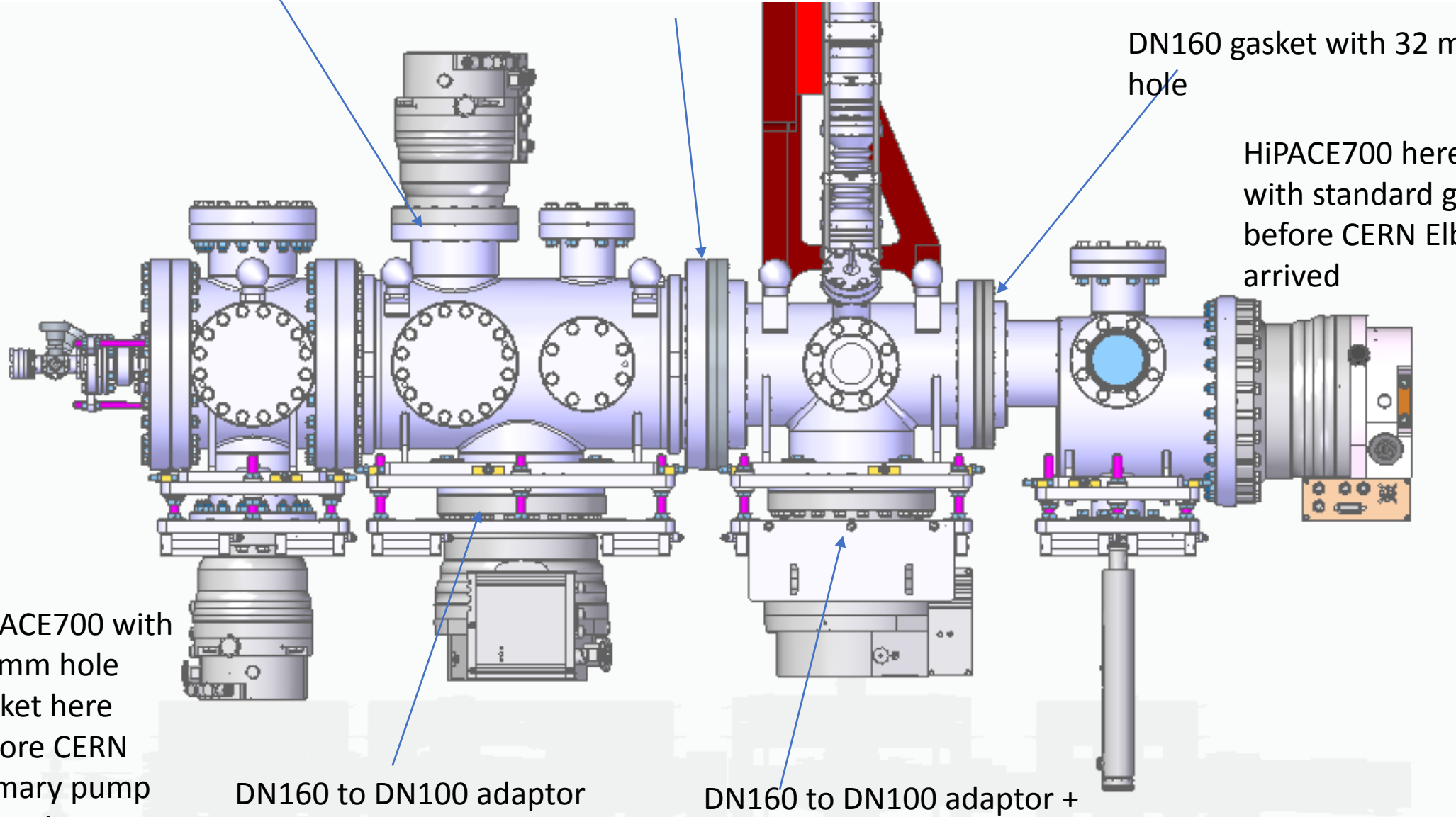
- Imitate version 3 schematics with experimental setup
- Get “matrix of pressures” at every step
 - Change 1 parameter at a time
 - Pressures as a function of injection pressure (0-10bar)
 - Each data point with e-gun off/on

DN100 gasket with 63 hole

I don't think DN160 gasket with 63 mm hole needed since there is 3 skimmer upstream

DN160 gasket with 32 mm hole

HiPACE700 here with standard gasket before CERN Elbow arrived



HiPACE700 with 63 mm hole gasket here before CERN Primary pump arrived

DN160 to DN100 adaptor + DN100 gasket with 63 hole + Hipace300

DN160 to DN100 adaptor + DN100 gasket with 63 hole + Hipace300

Slide: Hao Zhang

TE-VSC: Testing dry pump

