## Brief PS status 18 May 2018

Frank Tecker, on behalf of PS operations and supervisor team



### **PS Beams Overview**

Operational Beam Status:	
LHCPROBE	Operational
LHCINDIV	Operational
LHC25#12b	Available at nominal intensity (1.3 · 10 <sup>11</sup> ppb)
LHC25#72b	Available at nominal intensity (1.3 · 10 <sup>11</sup> ppb)
LHC25#12b_BCMS	Available at nominal intensity (1.3 · 10 <sup>11</sup> ppb)
LHC25#48b_BCMS	Available at nominal intensity (1.3 · 10 <sup>11</sup> ppb)
LHC50#36b	Not set up
LHC100#18b_Split_1_4GeV	Setting-up ongoing
LHC25#56b_8b4e	Not set up
LHC25#32b_BCS_8b4e	Setting-up completed
LHC_ION_Early_Pb54	Setting-up ongoing
ILHC100#4b	Setting-up ongoing
SFTPRO-MTE	Available, intensity today at 1600·10 <sup>10</sup> (up to 1800·10 <sup>10</sup> tested)
EAST_North	Operational
EAST_IRRAD-CHARM	Operational, (PAXP502 around alarm level A)
EAST_Irrad_Probe	Not set up
TOF	Available up to 8 · 10 <sup>12</sup> ppp (today @ 770 · 10 <sup>10</sup> )
AD	Operational at 1.4 · 10 <sup>13</sup> ppp



#### PS studies

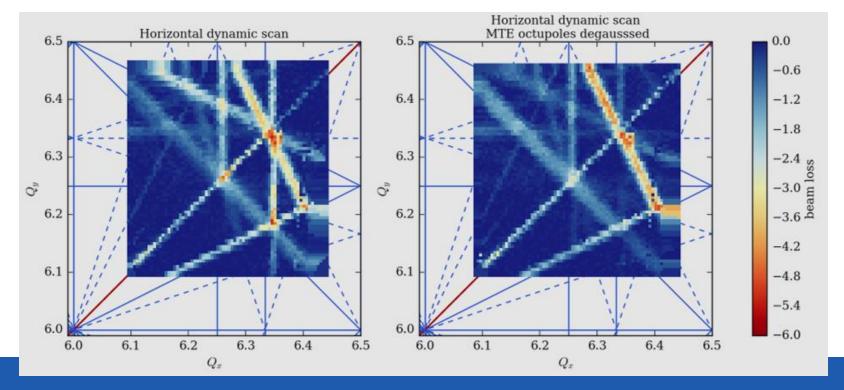
- 2<sup>nd</sup> dedicated MD for transfer line matching PSB -> PS
  - Measurement with PS SEM grids, kick response campaign
  - Procedure being drafted for multi-turn SEM grid measurements
- Parallel MDs for:
  - Space charge studies (Prepared cycle with 26 GeV ramp at start)
  - New sextupoles commissioning for chromaticity correction
  - nTOF intensity increase (with blow up at 2.5 GeV)
  - Tune diagram measurements
  - Beam missteering at injection
  - Studies for Quadrupolar Pick-up, 80 bunches production, KFA45 post-pulse ripple for different amplitudes
  - Beam measurements of resistive impedance; Recommissioning of coupled-bunch feedback; LHC25ns intensity ramp-up; Lead ion beam with 75 ns spacing



# HORIZONTAL TUNE SCAN <u>without/with</u> OCTUPOLES DEGAUSSING My

(2nd SET OF MEASUREMENTS-SAME-DAY-)

Myrsini Kaitatzi, Alexander Huschauer





#### PS Availability during last 4 weeks

