

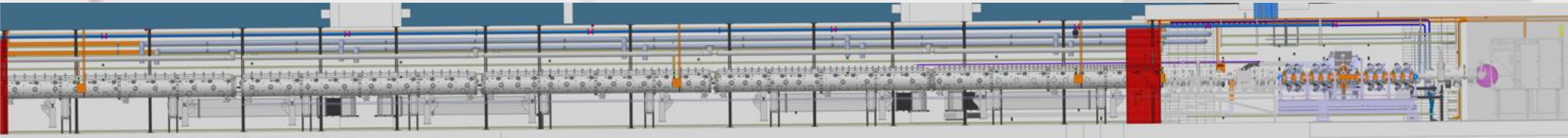
EUROPEAN SPALLATION SOURCE (ESS) NORMAL CONDUCTING FRONT END STATUS REPORT



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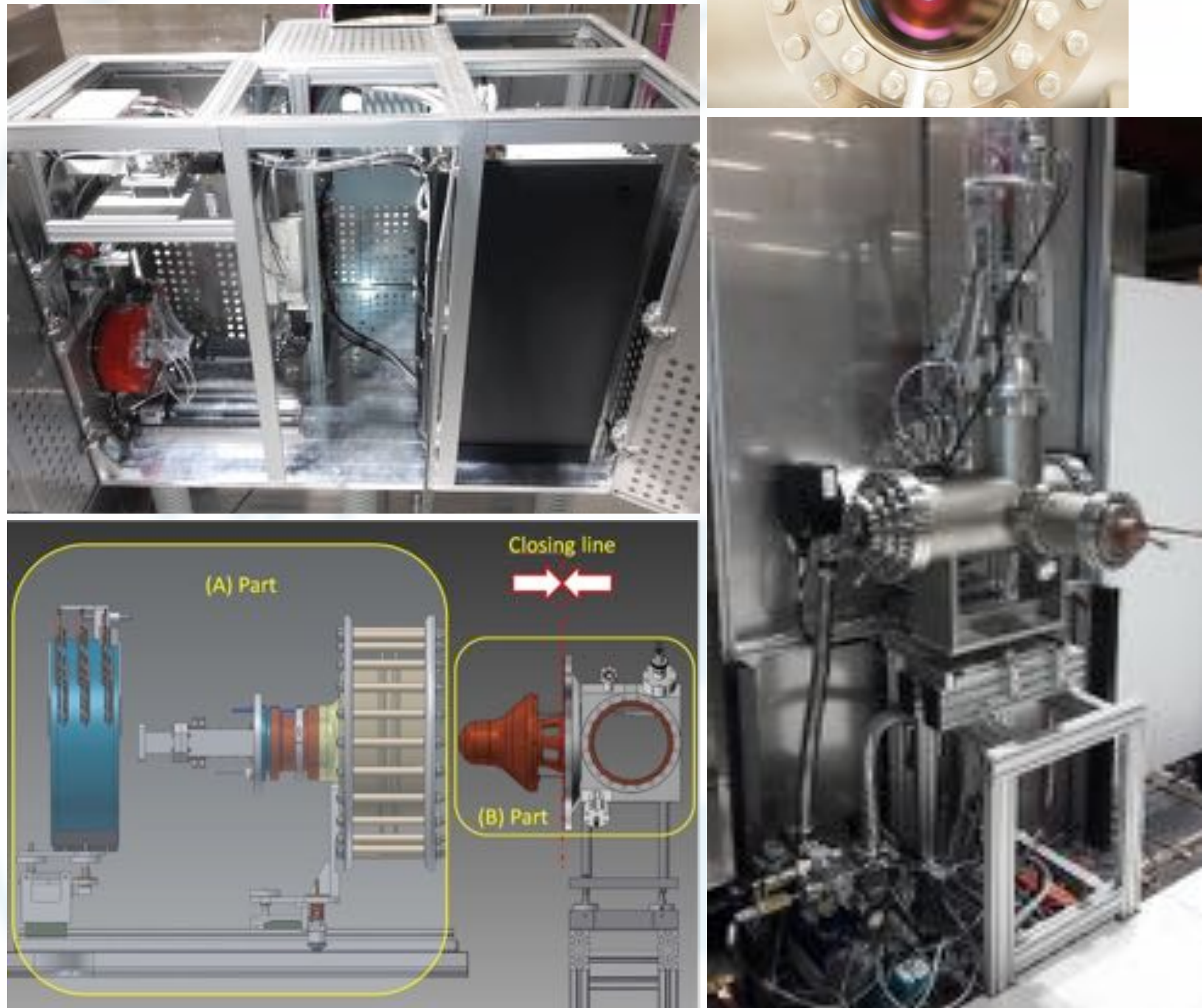


Abstract

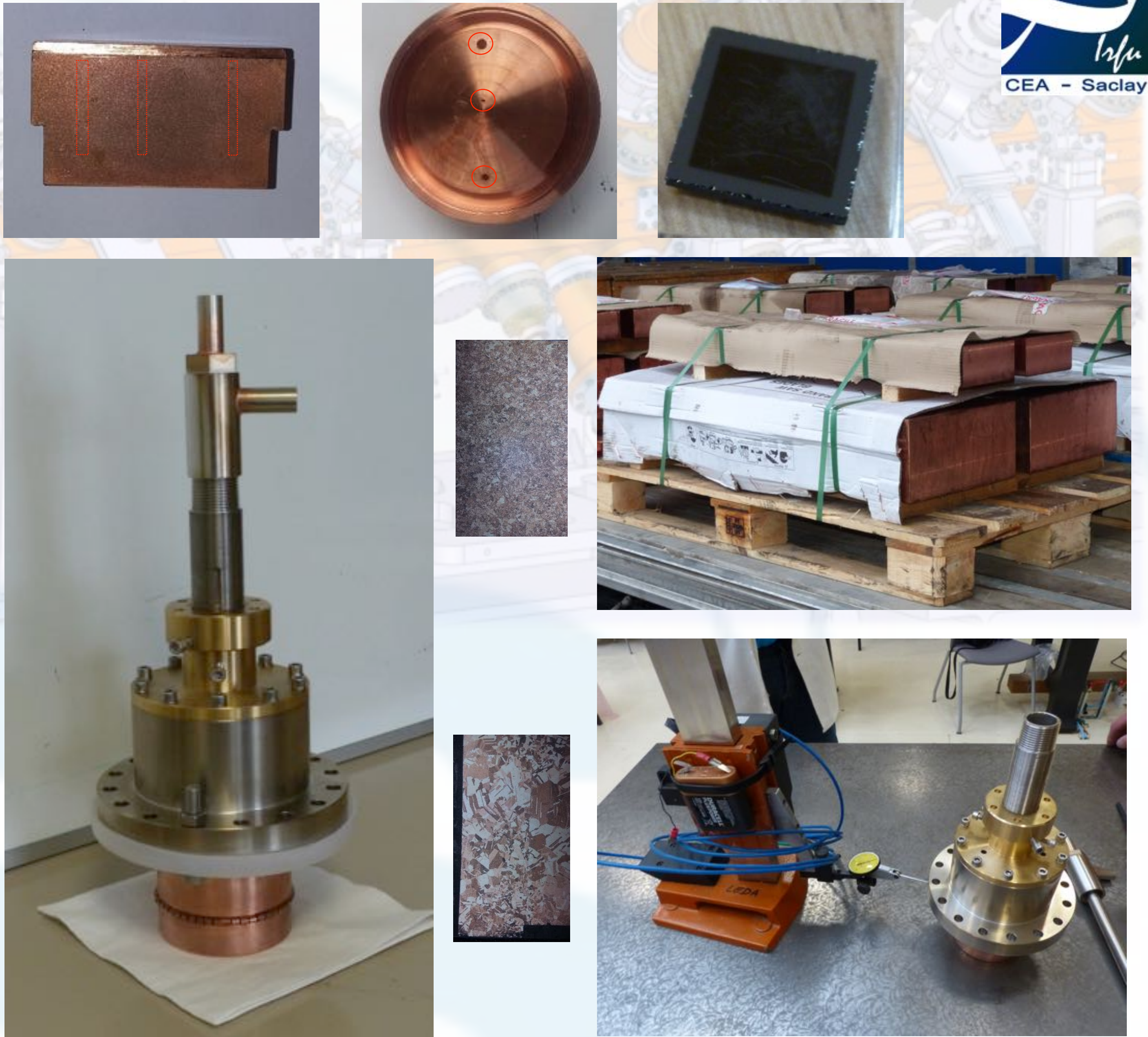
The European Spallation Source (ESS) will deliver first protons on target by mid 2019. Civil construction of the accelerator tunnel has made good progress and will allow starting installation of the normal conducting front end (NCFE) by end of 2017. To achieve these milestones the design of all major beam line components has been completed and the construction of the subsystems begun. We report on the advancement of the subsystems and the commissioning progress of the microwave discharge Proton Source (PS- ESS).



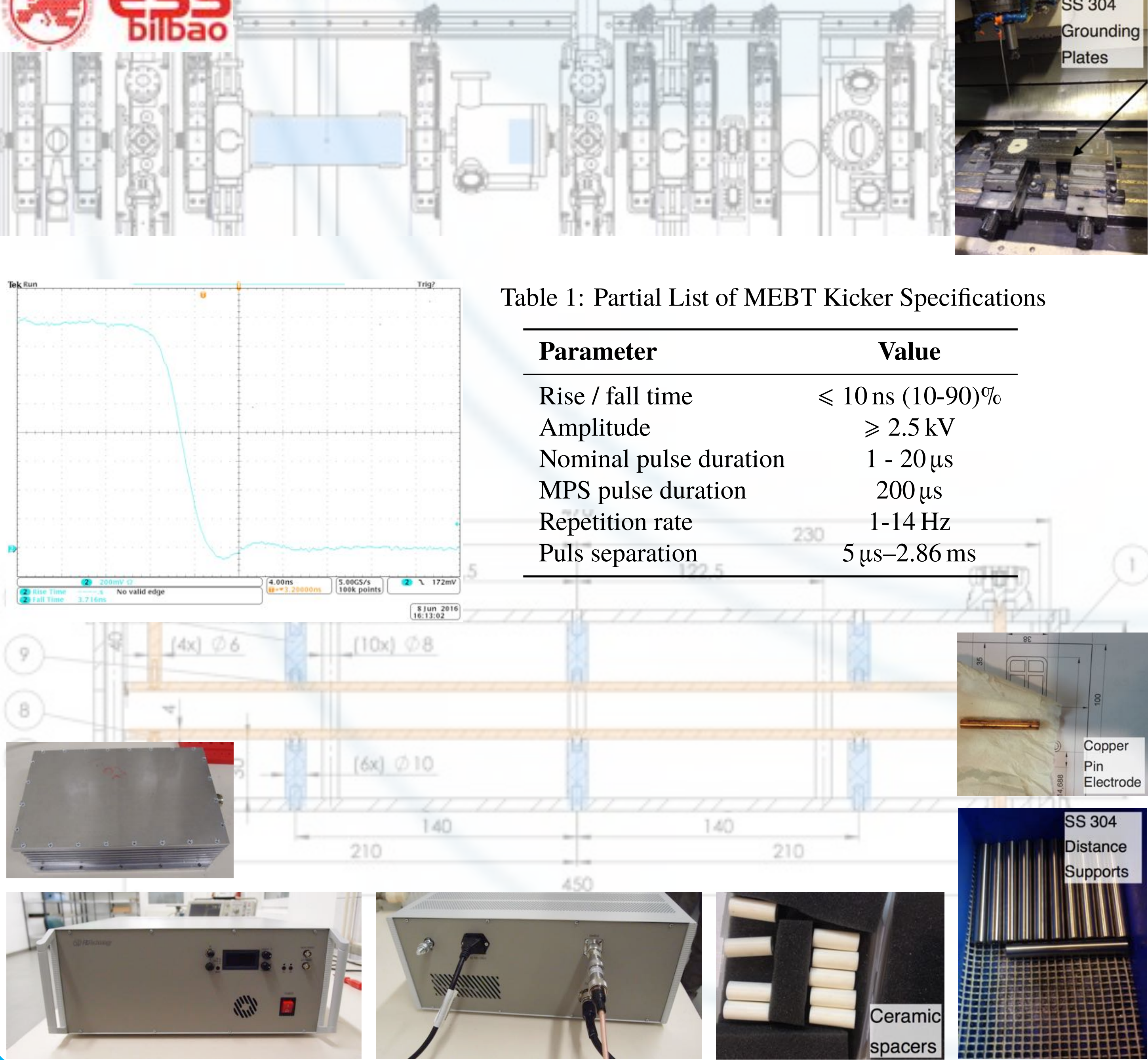
MICROWAVE DISCHARGE PROTON SOURCE AND LOW ENERGY BEAM TRANSPORT LINE



RADION FREQUENCY QUADRUPOLE



MEDIUM ENERGY BEAM TRANSPORT LINE



DRIFT TUBE LINAC

