



Project Progress Review (PPR) 4-2025

Présenté par:
H. Abualrob
Luc Perrot

10 juillet 2025



TDR

```
Magnets
  Overview of the magnets of PERLE (Authors: Beam dynamics group)
   Dipole magnets
     Rectangular dipoles
        Magnetic design (Author: H. Abualrob)
        Mechanical design (Author: BE)
     Sector dipoles
        Magnetic design (Author: H. Abualrob)
        Mechanical design (Author: BE)
     B-com dipoles
        Magnetic design (Author: H. Abualrob)
        Mechanical design (Author: BE)
     Kicker magnets
        Magnetic design (Author: H. Abualrob)
        Mechanical design (Author: BE)
     Injection/extraction chicanes
        Magnetic design (Author: H. Abualrob)
        Mechanical design (Author: BE)
   Quadrupole magnets
     Magnetic design (Author: H. Abualrob)
     Mechanical design (Author: BE)
Power supplies (Author: TBD
```



Etat d'Avancement

- Visit to the ESRF
 - Updated packages needed for the bench operation are communicated
 - Packages for automation of quadrupoles measurement are communicated
 - We develope the packages for automation of dipoles measurement
- Arrival of 2 Palestinian interns (late due to the war in the region)
 - Mohammedkhaled Salah on Juin 30th
 - Set up installation (completed)
 - Bench operation (in progress)
 - Mesurement automation for quadupoles
 - Measurement automation for dipoles
 - Jana Souyani (Juin 24th)
 - Design of the quadupoles of the temporary line (in progresse)
 - Design of the dipole spectrometer
 - Design of the kickers



Points de vigilance

- Magnets from CERN, should I follow up ?
- SSW bench
 - New computer (migration from windows 7 to windows 11)
 - Control system is procedures running on Igor Pro, we have licence for Igor6, last version Igor9 is used by the ESRF
 - We try to manage with Igor6 and migrate to Igor9 if needed
- CTF3 quadrupoles in ACO building
 - Pwer supplies are missing
 - Other old model Bruker power supplies from Trieste are available, but documentations are missing! Contact with Bruker by E. Froidefont (LPSC) to look for documentation. However, more information about their origin is needed, can we ask the IJCLab administration about relevant documents?
 - If powered, we might think in using them for the temporary line. Otherwise, design and production becomes mandatory, which option?
 - If we take the design and production option, it becomes urgent to get a final requirements from WP2