# BACKGRUUNIS

REPORT

Eugenio for the

SuperB Background team

#### GREAT MEETING!

- Traced the plan of activities for the next months.
- First contacts with PID people to include the DIRC in the backgrounds analysis.
- Very good and promising new ideas:
  - Python to access Geant4 internals @ runtime
  - geometry sincronization (fast ←→ full)
  - backgrounds frame superposition (fast sim)

#### PLANS: TIME LINE

- Goal for the Paris meeting: produce and analyze a bigger background sample
- Mid of january: preproduction of a small sample to
  - Exercise Bruno (Eugenio, Andrea, Roberto)
  - Exercise the farm and storage in Padova (Roberto)
  - Production cut studies ( I man week / subdetector)

# NON PHYSICAL PARAMETERS

- Production cuts: tuning speed vs accuracy
- Physics list: we have to include neutron production

### PLANS: TIME LINE 2

- Implementation of the last IR in GDML (I - 2 Week: who?)
- Digitization infrastructure (Andrea)
- IFR Digitization (Ferrara: who?)
- Beam gas generator (Manuela)

# END OF JANUARY

- Radiative Bhabha (BBREM)
- Pairs production (Diag36)
- Touschek (Manuela's tool)
- Beam gas (Manuela's tool extended)
- Neutron scattering and thermalization

#### CODE DEVELOPMENT

- First attempt of Monte Carlo truth (Andrea + Eugenio)
- Digitization infrastructure (Andrea)
- Geantino Radiography (Eugenio)
- Python Interface report in February ready in April (hopefully) Andrea

# CPU & DISK

- Padova Farm (Roberto Stroili)
- Xrootd server to store and distribute the data

#### MAN POWER 155UES

- IR GDML-ization?
- Book keeping?
- Job submission and management?
- Digitization?

# CONCLUSIONS

- Very fruitful and enjoing meeting
- Lot of home-work to do
- Join the venture!