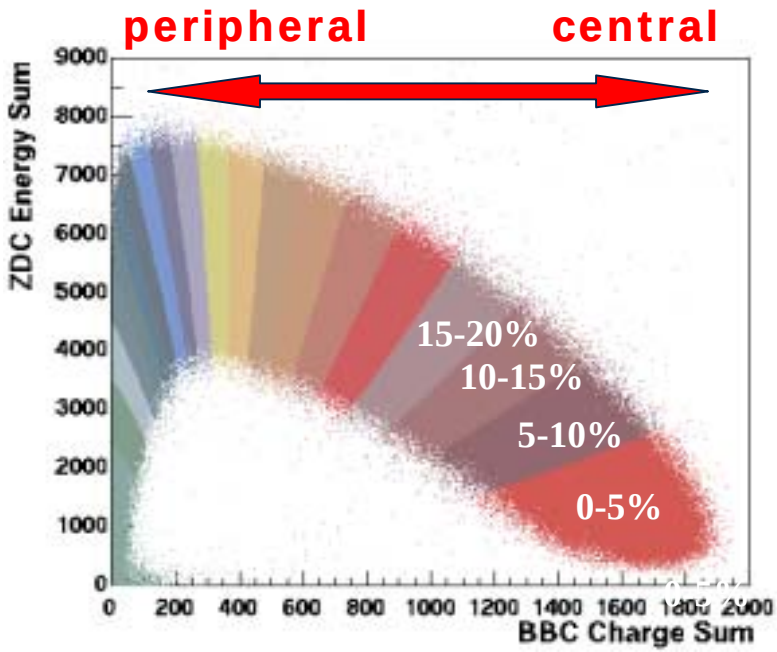
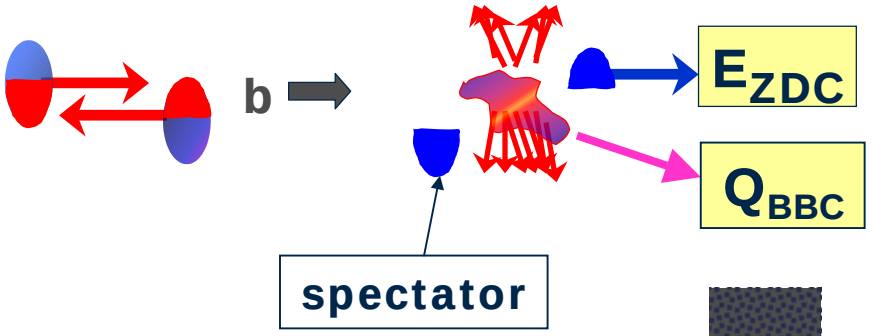
Centrality determination

- **Event characterization in terms of impact parameter (b) in Au+Au collisions.**
  - **Large : peripheral collision**
  - **Small : central collision**
- **Coincidence between BBC and ZDC.**
  - Determine collision centrality.
  - 92 % of inelastic cross section can be seen.
- **Extract variables using Glauber Model**
  - **Number of participants (*N_part*).**
    - Number of nucleons participate in a collision.
    - Represents centrality.
    - Related with soft physics.
  - **Number of binary collisions (*N_binary*).**
    - Number of Nucleon-Nucleon collisions.
    - Related with hard physics.
    - Incoherent sum of N-N collisions becomes a baseline for A-A collisions.





Part 2

Results : Leptonic probes

- Single electron results
- Dielectron continuum results
- ϕ results
- J/ψ results