

Beam halo tracks from data

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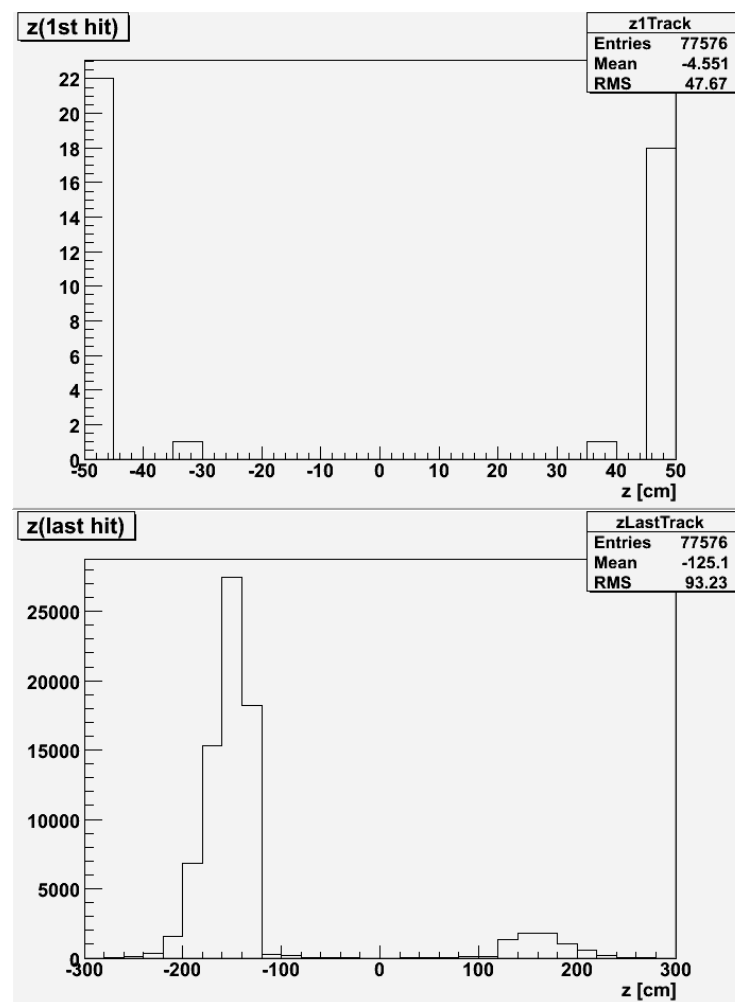
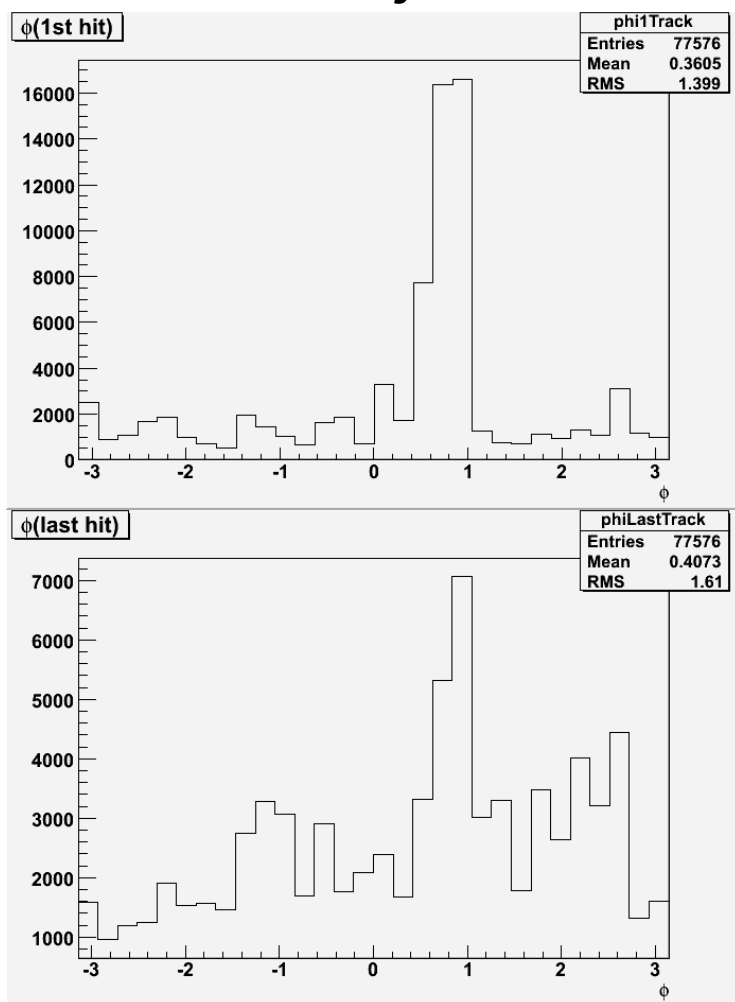
04/02/2010

Data samples and selection

- Runs 124009, 124020, 124022, 124230
 - ALCARECO from E. Migliore:
 - '/store/user/emiglior/ALCARECO/16Dec09/TkAlBeamHalo_124009.root',
 - '/store/user/emiglior/ALCARECO/16Dec09/TkAlBeamHalo_124020.root',
 - '/store/user/emiglior/ALCARECO/16Dec09/TkAlBeamHalo_124022.root',
 - '/store/user/emiglior/ALCARECO/16Dec09/TkAlBeamHalo_124230.root',
 - # events: 84751 (selected by PhysDecl bit) → 231213 tracks
- See “Beam halo tracks from data” presentation in <https://indico.desy.de/conferenceDisplay.py?confId=2659>
 - Here some additional checks have been done

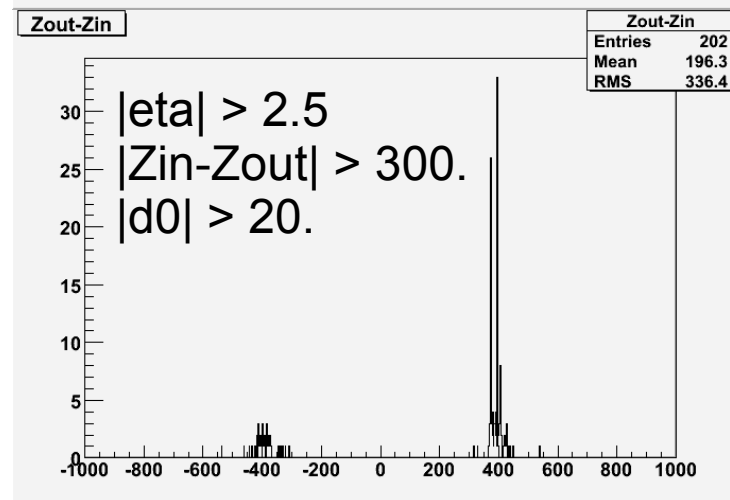
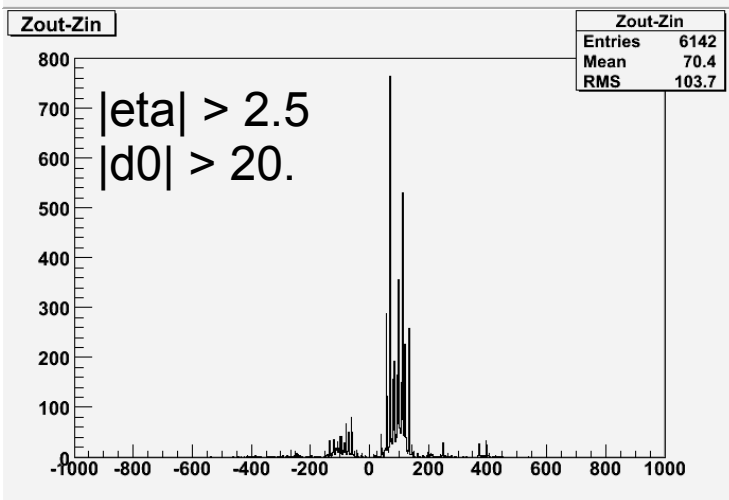
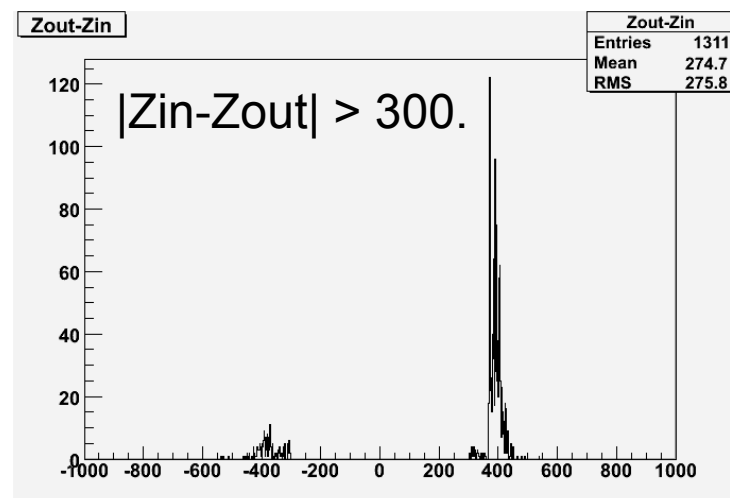
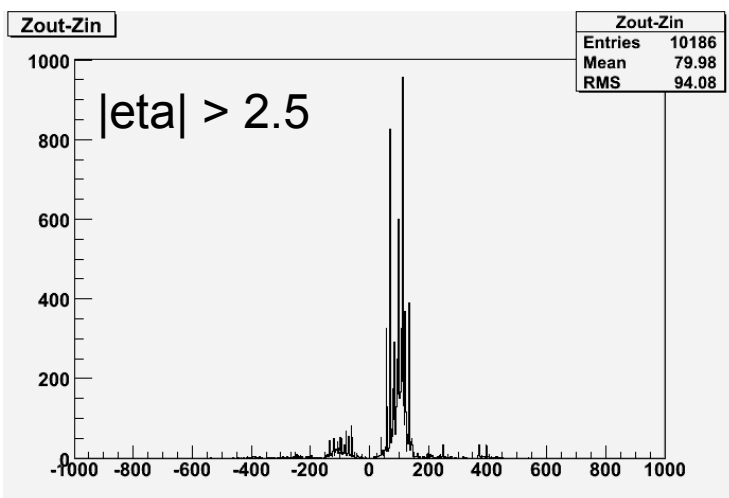
Phi,z at first and last hit

- From Pede job, normChi2<50: 77576 trks

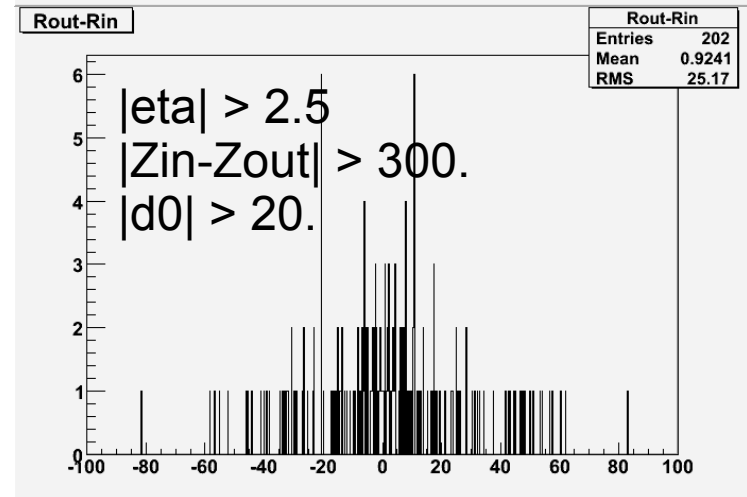
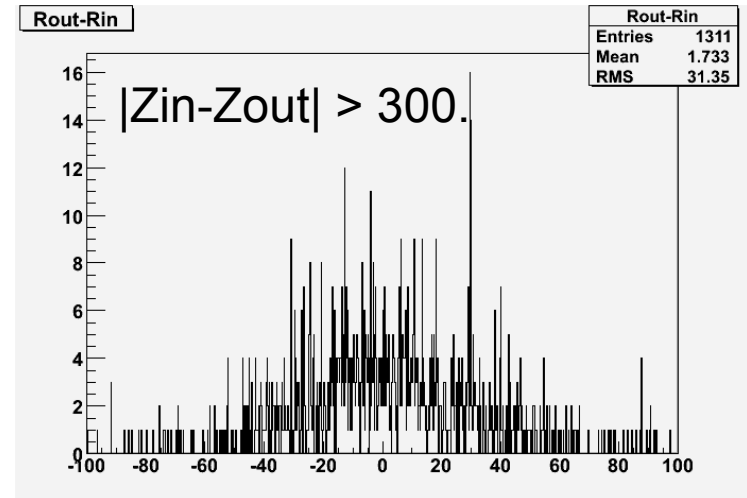
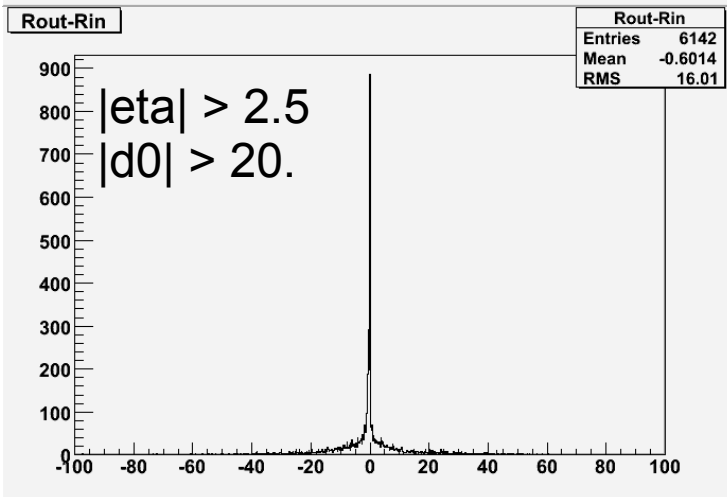
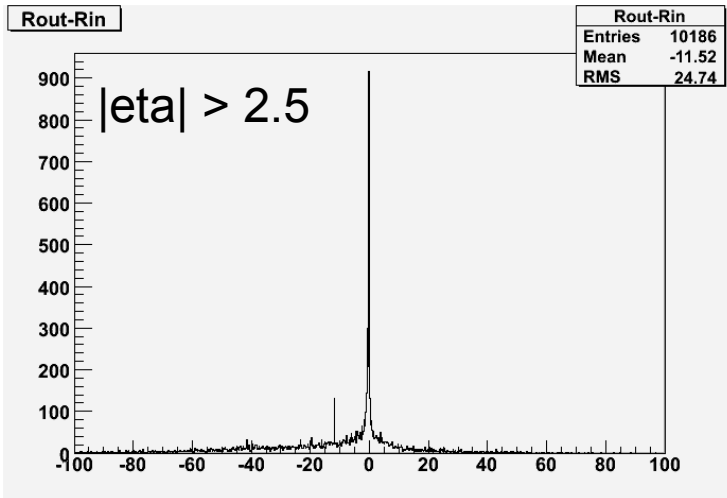


Zin-Zout

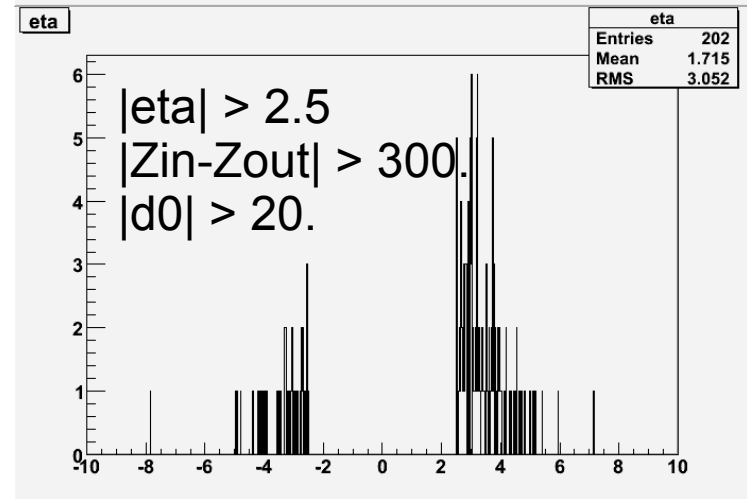
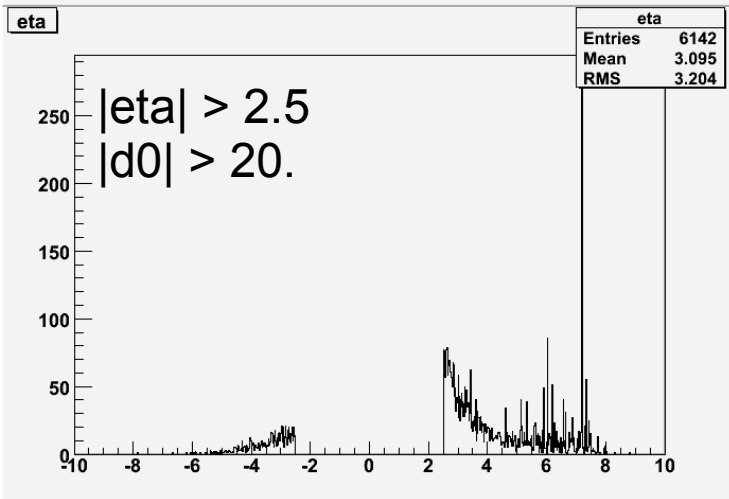
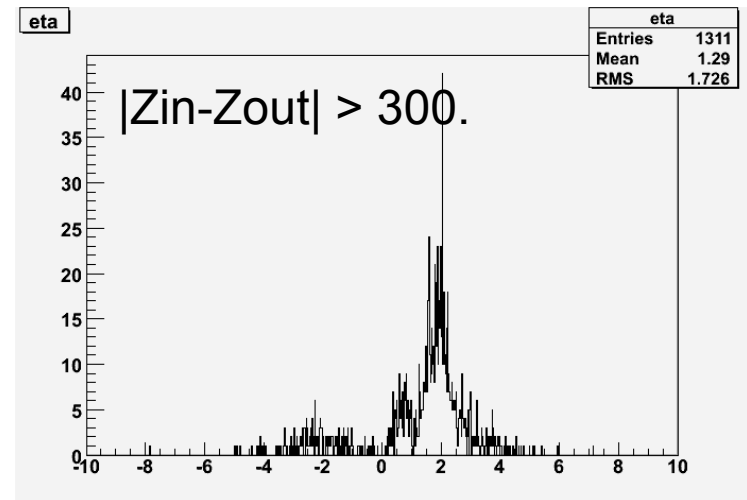
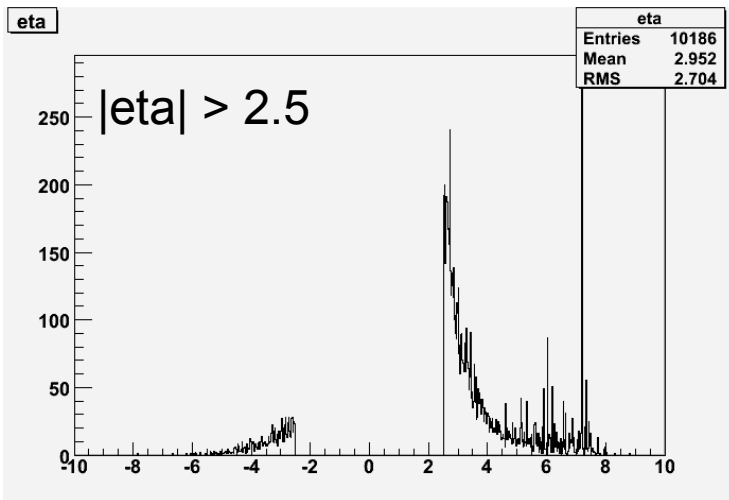
- Different track selections applied:



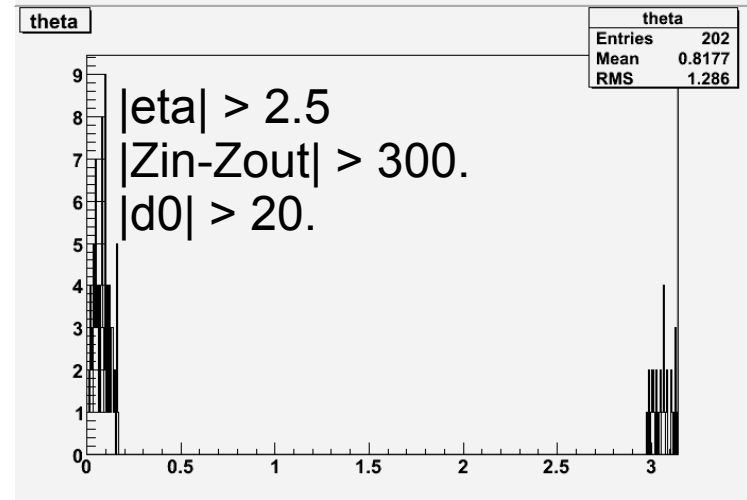
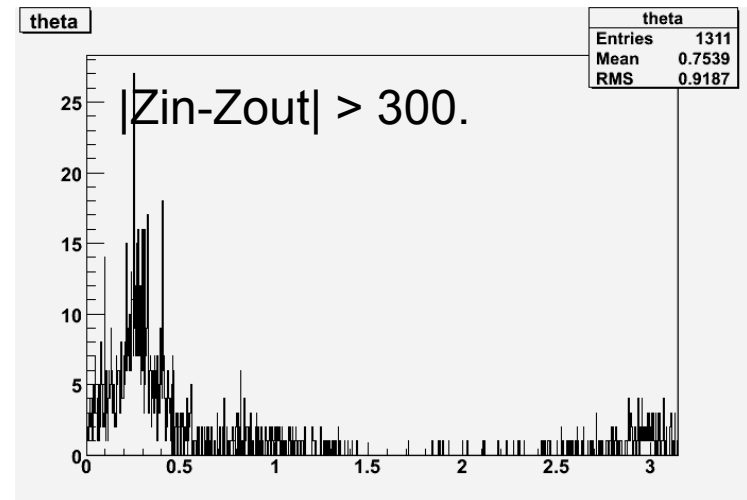
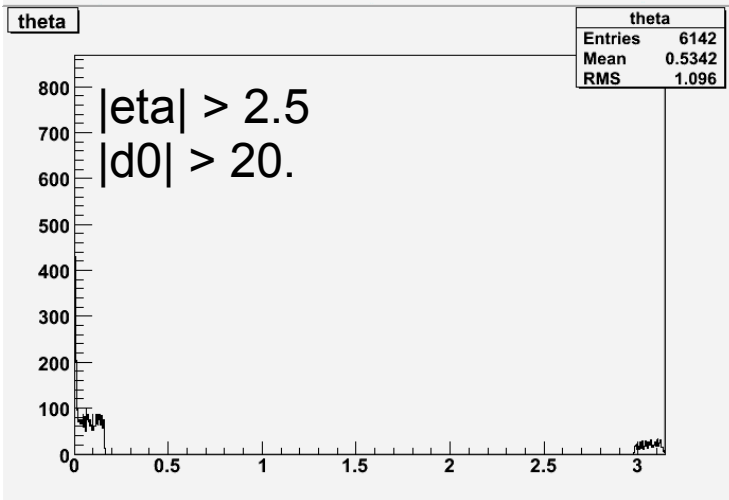
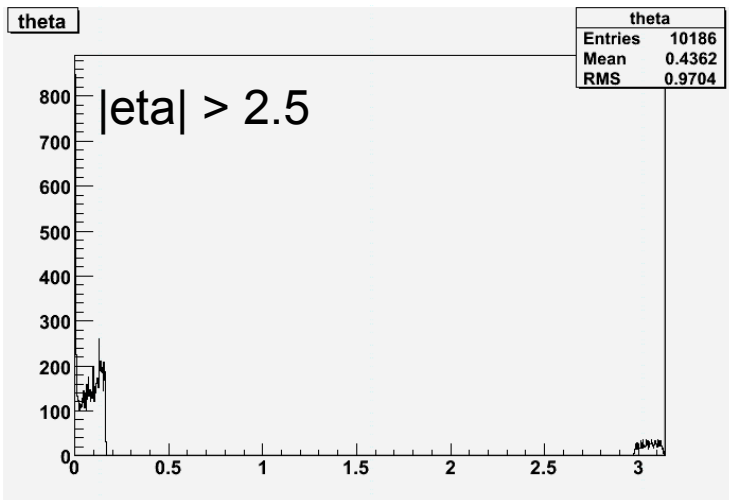
Rin-Rout



Eta



Theta



Run=124020 Evt=10141261

One of the event
having tracks with:
 $|\eta| > 2.5$
 $|Z_{in}-Z_{out}| > 300$.
 $|d_0| > 20$.

