Subject: CALIFA-SiTracker-GLAD geometry conflict
Posted by Anna Corsi on Wed, 08 Mar 2017 15:26:54 GMT
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Hello,

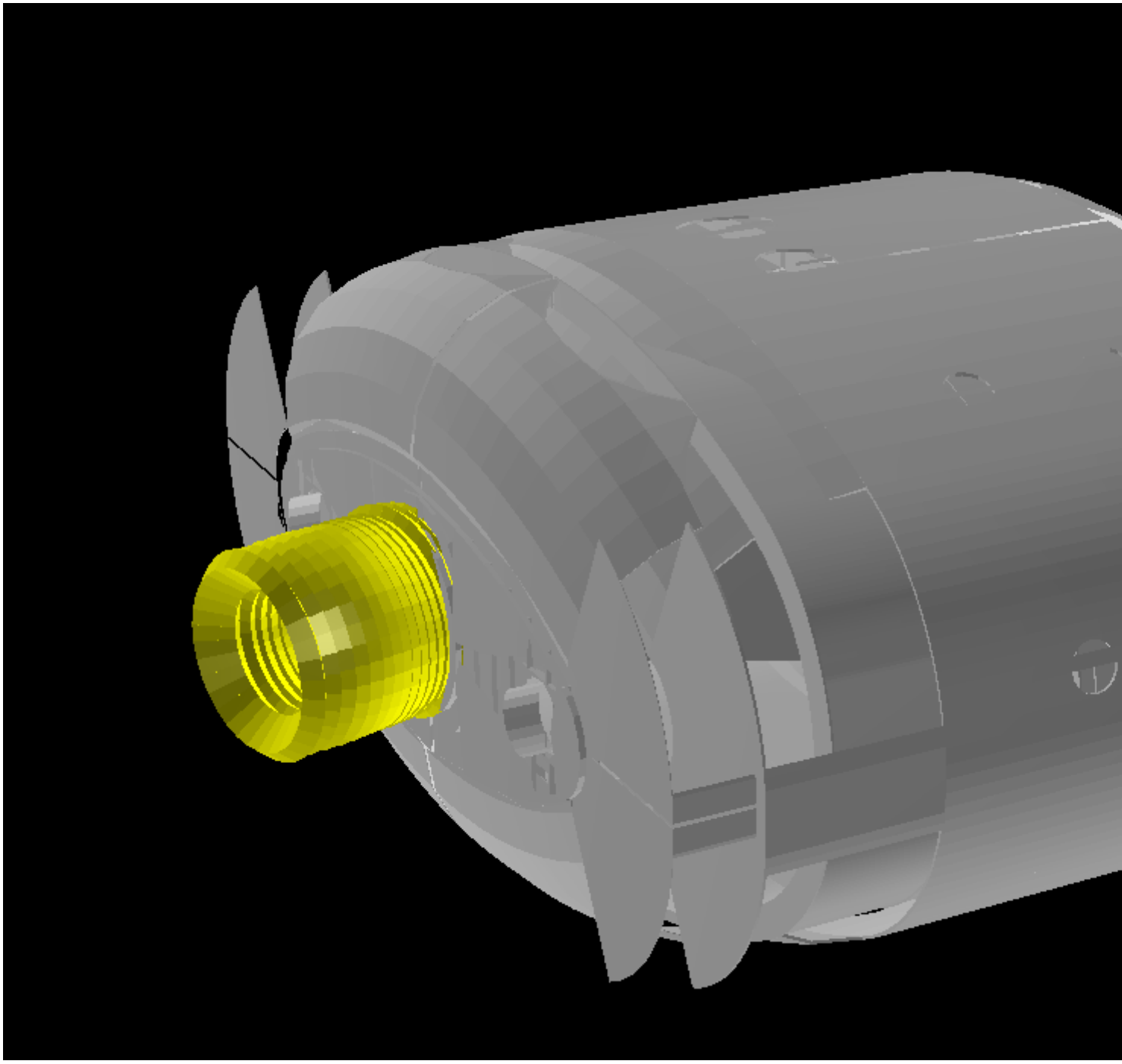
I find a conflict of geometry among the following detectors, as in attached picture.
```
  detGeo.Add(new TObjString("GLAD"),          new TObjString("glad_v13b.geo.root"));
  detGeo.Add(new TObjString("CALIFA"),        new
TObjString("califa_17_v8.11_cc0.2.geo.root"));
  detGeo.Add(new TObjString("STaRTrack"),     new
TObjString("startra_v16-300_2layers.geo.root"));
```

Could you tell me which detectors should be moved to simulate experiments with setup expected for 2018?

Thanks in advance.
Best regards,
Anna

File Attachments

1) , downloaded 1186 times



Subject: Re: CALIFA-SiTracker-GLAD geometry conflict
Posted by Hector Alvarez Pol on Thu, 09 Mar 2017 18:25:12 GMT
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Hi Ana,

last time I was testing the CALIFA position, it was correctly located with respect to the nominal target position.
If this is true, the magnet is misplaced by around half a meter in this geometry file.

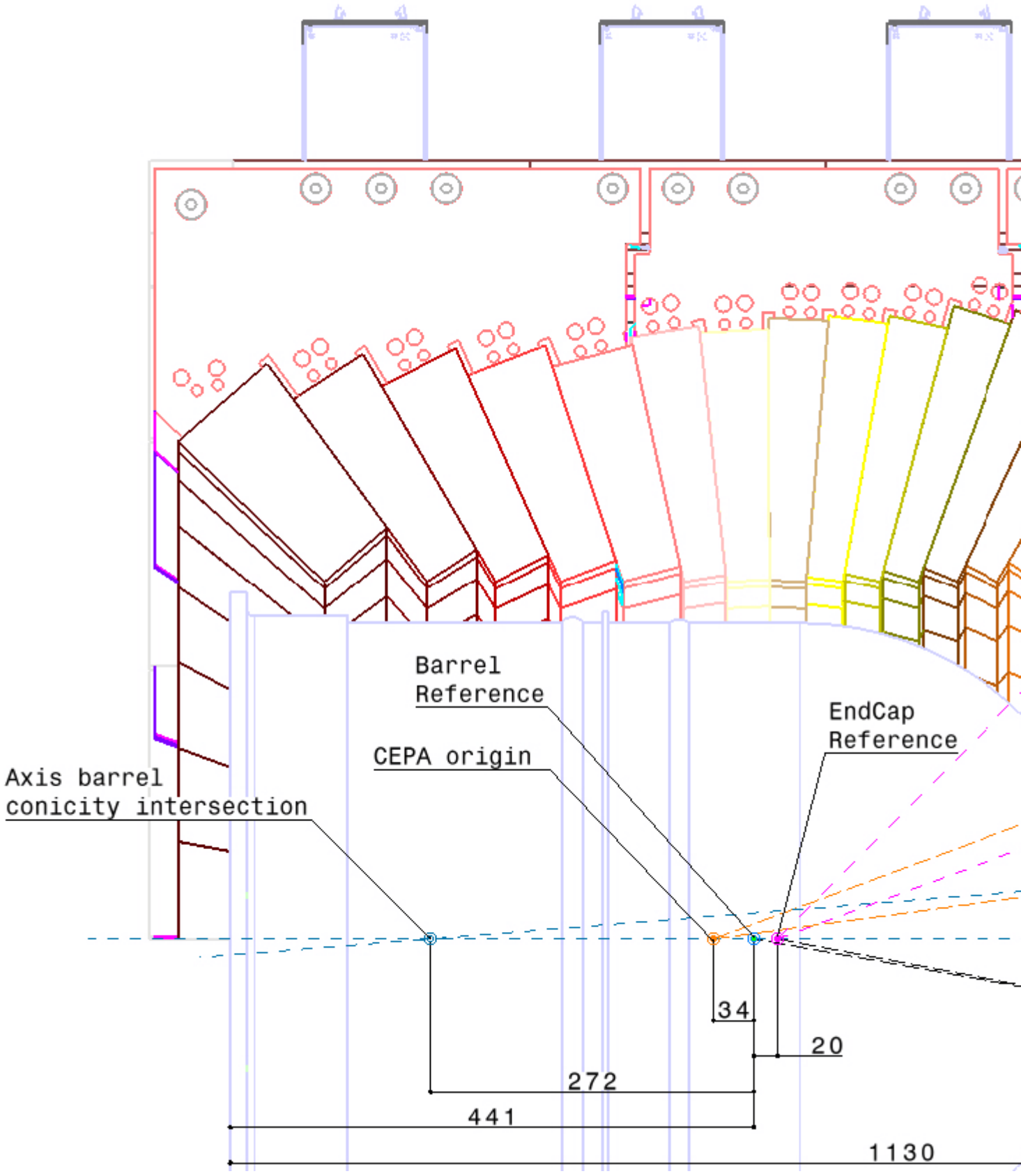
For a fast check to determine if CALIFA is correctly centered, you could find where the origin is

in your plot or simply visualize a reaction vertex...
the CALIFA barrel should be located as it is in the attached picture (side view).
A displacement of half a meter as it is shown in your pic would mean that the vertex could be located outside the Barrel.

Regards,

File Attachments

1) 1211.jpg, downloaded 1555 times



Subject: Re: CALIFA-SiTracker-GLAD geometry conflict
Posted by Michael Heil on Mon, 13 Mar 2017 13:41:45 GMT
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Hello Anna,
here is my view of how to solve this problem: We used to have the target Position at x=0, y=0 and z=0 per Definition. The distance from the target position to the entrance flange of GLAD is 1062 mm. And Califa has also a nominal position relative to the target. If both are at this position there should be now overlap anymore.

Subject: Re: CALIFA-SiTracker-GLAD geometry conflict
Posted by Anna Corsi on Tue, 14 Mar 2017 21:31:21 GMT
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Dear Hector and Michael,

Thank you for your replies.
In my understanding (see attachement) the GLAD position is such that the entrance flange is rather ~50 cm from the origin (target center), so it should be shifted downstream.
For information, the create_glad_geo file I used originally has DistanceToTarget = 350 (cm).

Best regards,
Anna

File Attachments
1)
downloaded 1228 times

