Hi,
the MDT data members have changed, then you could have problems if you use MDTs. But in
theory you should be able to process normally all the other events.

It seems to me the crash is comsing from something different:

Error in <TBufferFile::CheckByteCount>: object of class FairBaseParSet
read too many bytes: 19265734 instead of 19265730
Warning in <TBufferFile::CheckByteCount>: FairBaseParSet::Streamer() not
in sync with data on file run0_mom0.25_phi45_theta155params.root, fix
Streamer()

It is like you have overwritten the param file, or better the param file was created with an older
version of the code and FaseBarPasSet is not syncronized anymore.

In that case I think you have to redo the file again.

But, maybe there is a sort of patch you can try.
Go to another folder, and produce with the current pandaroot a small file with the same macro
you have used before. Once you have done this, in the folder you will have the mc file and also
the param one.

Now, try to use the new param file with the old file. I am not sure if this will work, but maybe if it
does you can avoid to rerun everything. Of course, if your original files are "very" old, you are
forced to rerun everything anyway.