Digitization for Roman Pots, OMD, and B0

- **<u>Roman Pots + OMD (AC-LGADs)</u>**
  - Clustered energy deposit into single hits assuming 500um pixels is sufficient.
  - Could get more-advanced and mimic signal sharing between adjacent pixels, but not a requirement for us.
  - Need timing information with applied resolution for timing (~35ps).
- **<u>B0 tracking</u>**
  - MAPS/ITS3 layers can use the same clustering for digitized hits used elsewhere in ePIC - no special requirements.
  - AC-LGAD layer has same requirements as RP/OMD, but could benefit from signal sharing when we get to the point of adding it (not strictly needed, but could help).
- **<u>B0 EMCAL</u>**
  - Need to simulated light collection from PbWO4 crystals.
  - Also needed for electron-endcap, our needs are not any different, but our background considerations will likely be very different.