Thursday, March 14, 2019

**Five milestones of CE-TOF mechanical design**

James Xia

Today Paul, Houle, and I discussed on CE-TOF timeline and **came up with five milestones:**

1. First milestone: completion of conceptual and preliminary design (4 weeks | by April 17th)  
   Embody parts: ion source, quadrupole ion transfer line, pusher, reflectron, MCP detector, reflectron, mounting and vacuum sealing of components.
2. Second milestone: completion of 3D CAD model (5 weeks | by May 30th)  
   Detailed engineering design, solid modeling and specifications.
3. Third milestone: completion of engineering drawings for machining (3 weeks | by June 20th)  
   Finalizing engineering drawings and identifying machine shops to make the parts.
4. Fourth milestone: all parts in house (8 weeks | by August 20th)   
   Vigorous inspection on all parts.
5. Fifth milestone: start pumping (2 weeks | by September 5th)

**A close up of text on a white background

Description automatically generated**