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Long-term community engagement with US industry for the next high energy physics collider [BALLROOM]

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The United States government high energy physics community develops state-of-the-art particle accelerator technologies, which later must be purchased from abroad to support domestic projects, because US-based firms are not consistently prioritized for government programs of record. In contrast, the high energy physics communities in Europe and Asia work to nurture their domestic industrial bases. Products developed by L3Harris Applied Technologies, Inc. (ATI) include large-scale pulsed power systems, commercial electron linacs for sterilization, high-power electromagnetic radiation systems, and flash X-ray radiography test equipment. ATI is an example of a domestic organization with complementary resources and capabilities for supporting the development and construction of the pre-injector linac for the Electron-Ion Collider (EIC) project. This presentation will provide a commercial perspective on how the US government high-energy physics community could engage US industry such that it would make business sense to continue operating in this space over a period of decades. Our shared goal is that domestic products and services will be available to support the next big US collider in the long term, as well as other accelerator facilities.

Working group

invited speaker

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