Beam Chamber Construction and Generator Shaft AlignmentCaleb Eldridge

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To study the decay chains of the 34Mg isotope, a particle accelerator is being constructed in TTU's ion-beam lab. Currently, some major tasks are building a chamber to provide a vacuum environment for the ion beam and preparing a power source to provide the voltage necessary to accelerate ions. My presentation will discuss the steps and challenges involved in the chamber's assembly as well as alignment of the power generator's motor shafts.