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## Energy Modulation in a Commercial Dual Grating Dielectric Structure

*Tuesday, 8 November 2022 17:00 (2h 30m)*

We present the latest experimental results using a dual grating dielectric laser accelerator (DLA) to modulate 6 MeV electrons. The structure is composed of two commercially available gratings, mounted independently with variable gap size controlled by 3 piezo motors. A 780 nm laser is used to drive the 800 nm periodic structure with gap size on the order of 1  $\mu\text{m}$ . These gratings are 4 mm long, enabling future long interaction experiments.

### Acknowledgments

**Primary author:** CRISP, Sophie (UCLA)

**Co-authors:** MUSUMECCI, Pietro; ODY, Alexander (UCLA)

**Presenter:** CRISP, Sophie (UCLA)

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