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## Search for New Physics in Beryllium

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Nuclear transitions provide a means to probe light, weakly-coupled new physics and portals into the dark sector. Particularly promising are those transitions that can be accessed through excited nuclear states that are resonantly produced, providing a high-statistics laboratory to search for MeV-scale new physics. In this talk we will review the so-called  $8\text{Be}$  - anomaly, which is a  $6.8\sigma$  discrepancy reported by the ATOMKI group in the observation of the decays of excited  $8\text{Be}$  -nuclei to their ground state via internal  $e^+e^-$  pair creation. The anomaly can be explained by the emission of a neutral boson with a mass of 17 MeV. We discuss the ATOMKI experiment and present ideas about a possible follow-up experiment to confirm these results.

**Primary author:** Prof. ZACEK, Viktor (University of Montreal)

**Presenter:** Prof. ZACEK, Viktor (University of Montreal)

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