

Light Dark Matter eXperiment

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Conference for Undergraduate Women in Physics



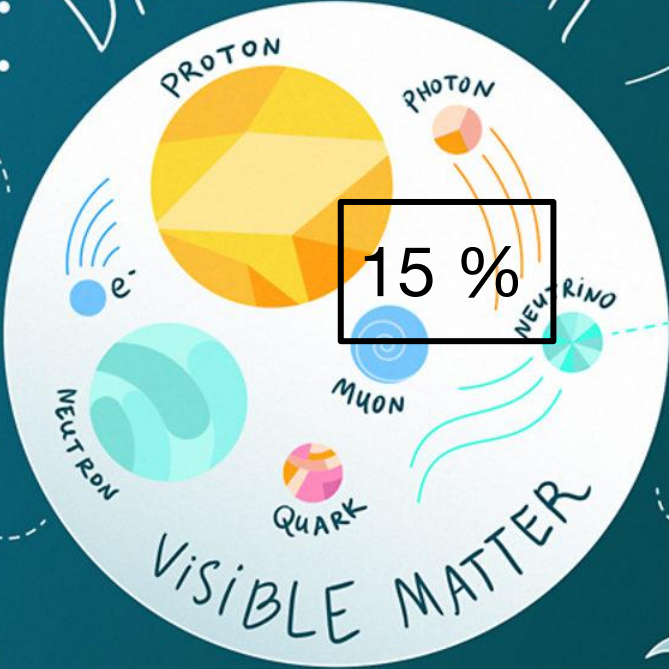
85 %

Sterile Neutrinos

DARK MATTER

MACHOs

GRAVITINO



NEUTRALINO

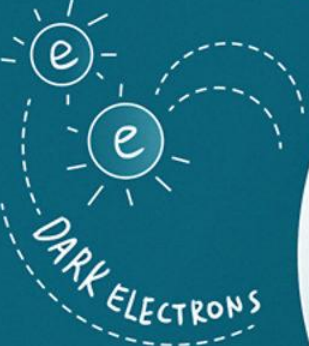
AXION

AXION

?

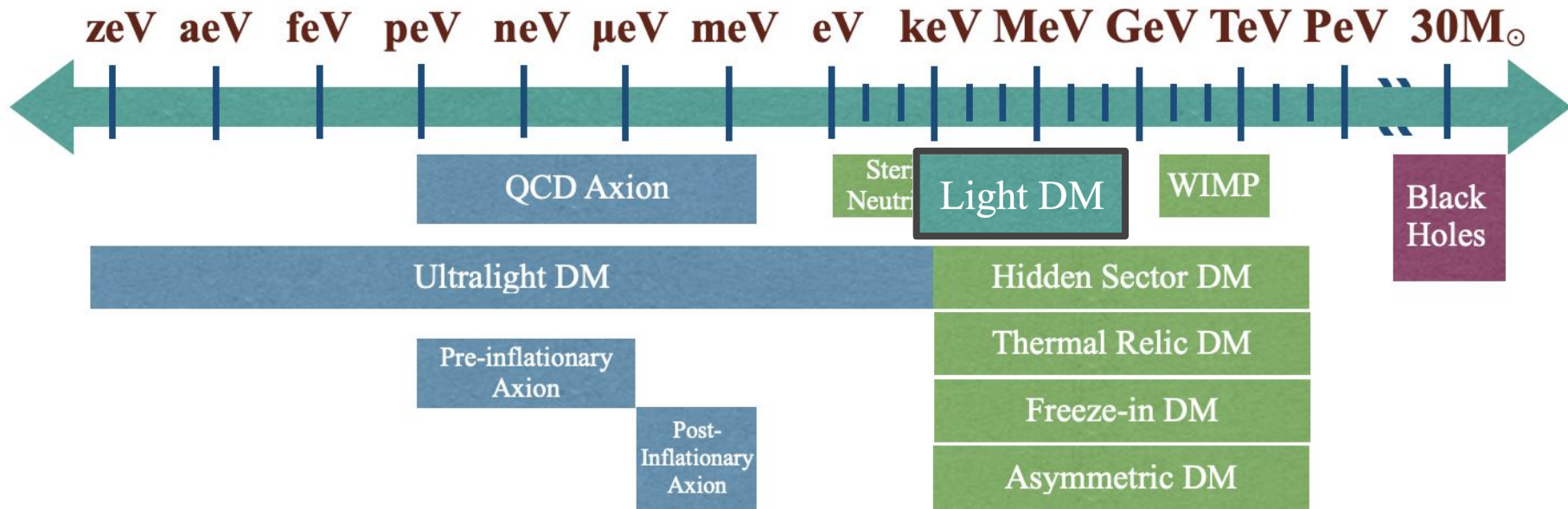
LDM

Wimp



?

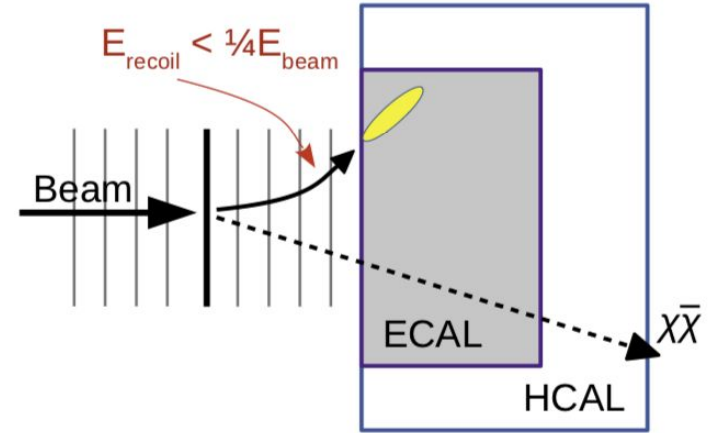
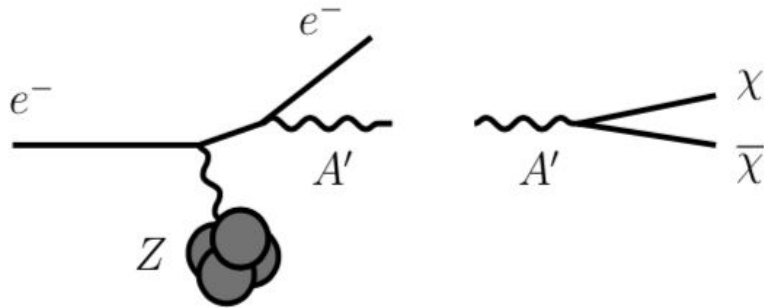
?



Anomalies:

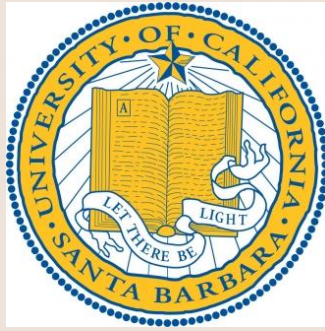
- \leftrightarrow
Beryllium-8
- \leftrightarrow
Muon g-2
- \leftrightarrow
Small-Scale Structure

- Charged DM particle (χ)
 - U(1) symmetry-- EM-like force
- Dark bremsstrahlung (interact with standard model)



- Signal: missing momentum
 - χ or A' not being detected

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Amina Li

