

## CUPID

Second  
Section

- Proposed  $0\nu\beta\beta$  search using bolometric array of 1596 lithium molybdate crystals, deployed in the CUOREdude cryostat.
- Aims to eliminate dominant background of alpha particles present in CUORE.

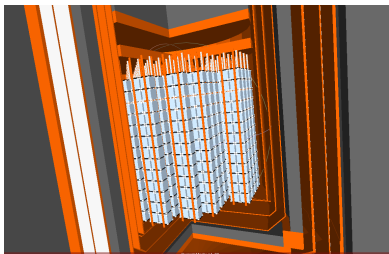


Figure: rendering of proposed CUPID array of  $\text{Li}_2\text{MoO}_4$  crystals

- $\text{Li}_2\text{MoO}_4$  crystals allow for discrimination of  $\alpha$  backgrounds from  $\beta\beta$  events ( $Q=3034\text{keV}$ ) via high-light yield scintillation signals.
- relatively high isotopic abundance of  $^{100}\text{Mo}$  (10%)
- enrichment above 95% already demonstrated in CUPID-Mo []

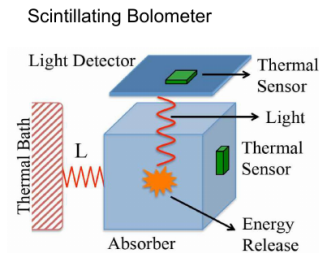


Figure: gnarly

- guy
- man
- dude

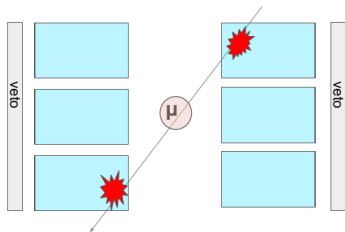


Figure: gnarly

- guy
- man
- dude

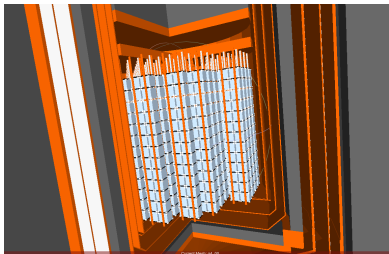


Figure: gnarly

CUORE is a massive bolometric detector searching for  $0\nu\beta\beta$  decay in  $^{130}\text{Te}$ .

## Block 1

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## Block 2

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## Block 3

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## Heading

- ① Statement
- ② Explanation
- ③ Example

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption



Theorem (Mass–energy equivalence)

$$E = mc^2$$

## Example (Theorem Slide Code)

```
\begin{frame}  
\frametitle{Theorem}  
\begin{theorem}[Mass--energy equivalence]  
$E = mc^2$  
\end{theorem}  
\end{frame}
```

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

An example of the `\cite` command to cite within the presentation:

This statement requires citation [**p1**].

[Smith, 2012] John Smith (2012)  
Title of the publication  
*Journal Name* 12(3), 45 – 678.

# The End