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Intense slow beams of heavy molecules to test fundamental symmetries

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Propositions accompanying the dissertation

Intense slow beams of heavy molecules to test fundamental symmetries

by

Kevin Esajas

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1. The difficulty in solving problems does not lie so much in the difficulty of the problems, but rather the lack of ideas.

2. The use of artificial Intelligence will certainly lead to scientific breakthroughs.

3. In the field of measuring the electron's electric dipole moment using atoms and molecules, the often used term 'effective electric field' does not describe an electric field.

4. The most challenging part of commissioning a cryogenic source is that in practice adjustments can only be made once a day.

5. The best method to create cold SrF molecular beams starts with heating Sr metal above 1000 Kelvin.

6. In multi-modal time-of-flight distributions, the earliest arriving mode does not necessarily correspond to the fastest moving molecules.