WG on Explaining hot PP topics to a lay audience

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How to introduce?

- As an intrinsic property op particles electric charge, mass, spin
- From macroscopic analogon angular momentum

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How to introduce?

- As an intrinsic property op particles electric charge, mass, spin
- From macroscopic analogon angular momentum
- public may find it hard to relate to abstract concepts
- understanding properties of "point particle" always difficult
- link to symmetries (fermion, boson)

Central concepts

- particle picture
 - rotating billiard balls
- wave picture
 - how to visualise/understand spin of single wave-packet?

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Start from effects

- interaction with magnetic field
 - Stern-Gerlach
 - show animations
- fermion vs. boson
 - laser
- angular distribution of colliding rotating billiard balls

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Image: A math a math

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Start from effects

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laser

- angular distribution of colliding rotating billiard balls
- works also for charge, mass

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Image: A match a ma

Demystify spin

It works in "everyday" world

- MRI
- spintronics
- laser
- ...

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