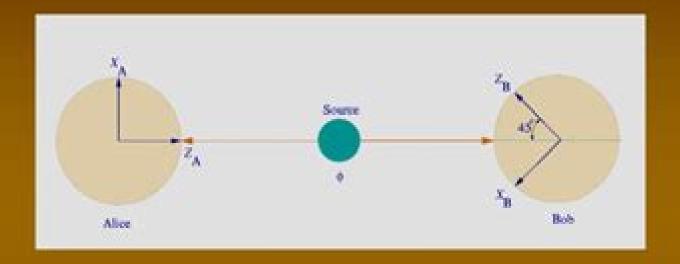
# Physics Prelude: EPR paradox



Source emits spin singlet

$$|\psi\rangle = \frac{1}{\sqrt{2}}(|+z\rangle \otimes |-z\rangle - |-z\rangle \otimes |+z\rangle$$

Measurement by Alice on | w> determines Bob's measurement.

The electrons are entangled.

# **Prelude To Physics**

**Peipei Pang** 

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in the understanding of the physical world beginning with the notion of geometric symmetries of the ancient Greek philosophers and mathematicians The recognition of the existence of symmetries led to the notion of transformations which led from one state of the system to another It was then realized that such transformations under the operation of multiplication constitute an interesting set whose study led to the branch of mathematics known as Group Theory With the emergence of quantum mechanics this theory became much more interesting and led to some additional applications The theory got another boost with the need for of the internal degrees of freedom in describing physical systems This way the notion of symmetry is no longer purely geometric and evolved into a useful tool in the study of all physical sciences For practical reasons as well as pedagogical reasons group theory is usually split into two parts The first deals with discrete groups with the group elements being countable usually finite in number while the second deals with continuous groups whose elements depend on continuous parameters This volumefocuses the discussion on discrete groups Given that group theory should be presented from a unified perspective involving not only the mathematical rigor and beauty of symmetries but also the ability to use it as a tool for applications either currently popular or expected to become so in the future this approach will surely be more beneficial to the dedicated reader It is not intended for those who would like to just look up a formula or use the results of a table without understanding their derivation Introductory Astronomy & Astrophysics Michael Zeilik, Stephen A. Gregory, 1998 This advanced undergraduate text provides broad coverage of astronomy and astrophysics with a strong emphasis on physics It has an algebra and trigonometry prerequisite but calculus is preferred

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web when magnetic north m is west of the true north variation v is west fig 9 5 as it is the case in eastern canada the magnetic course mc of the boat can be calculated from its true course to measured on the chart by applying the formula mc to variation west fig 9 5 i e magnetic course true course plus the variation west