

Alice



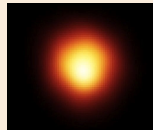
Alpha Centauri

Particle A

$$\frac{1}{\sqrt{2}} \left(| +z \rangle | -z \rangle - | -z \rangle | +z \rangle \right)$$

Particle B

Bob



Betelgeuse

~ 640 light years