

Abstract Submitted
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A Relativistic Understanding of Rotating Reference Frames

KACEY MEAKER, TOM MICHALIK, Randolph College (founded as Randolph-Macon Woman's College) — The purpose of this research is to obtain a greater understanding of relativistic acceleration and rotation. Particles in a rod experiencing constant acceleration have hyperbolic worldlines. A simple global rigid rotating frame cannot be physically realized, because the force needed to maintain an object in circular motion approaches infinity. This understanding will be discussed in this presentation.

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