

Motion Simulations

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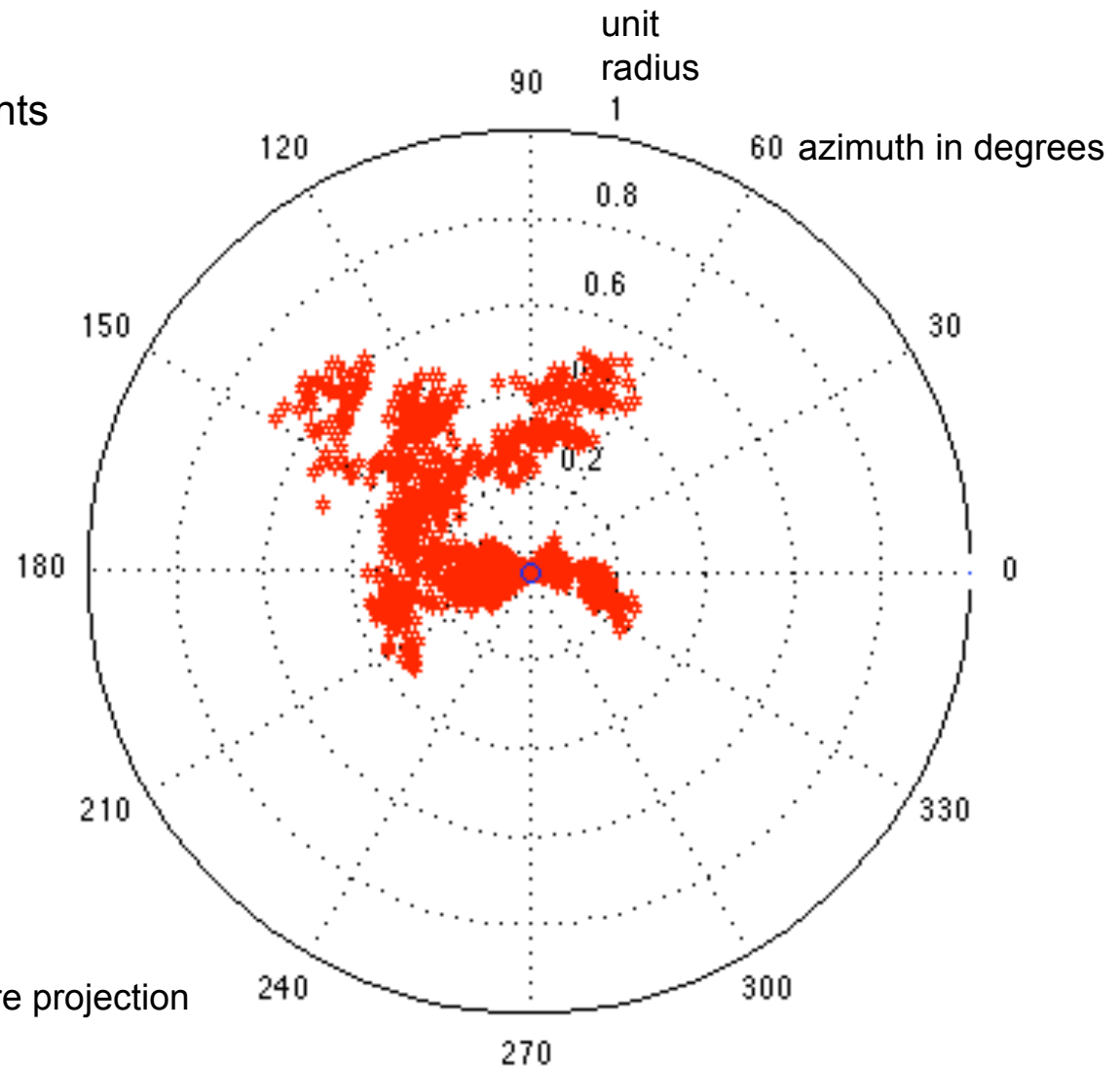
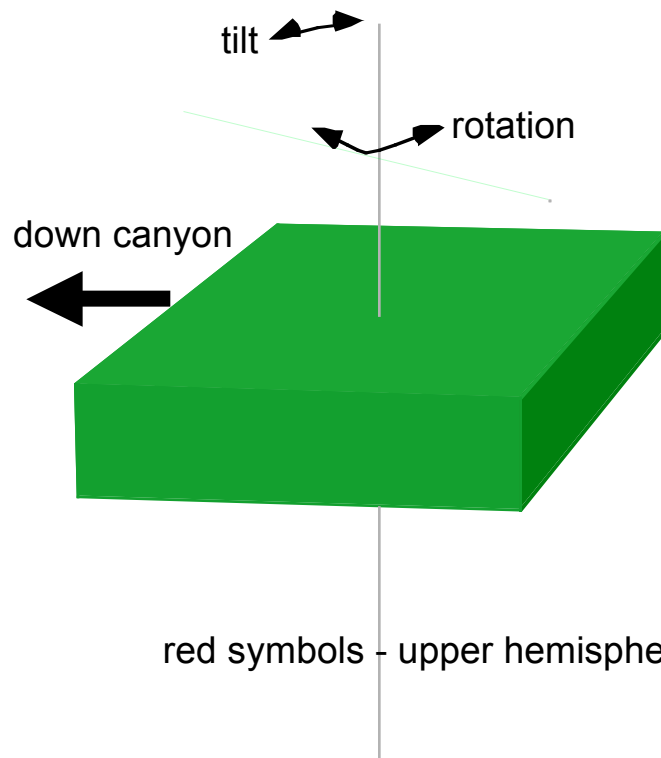
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Simulation of rotation and tilt around a vertical axis

1000 samples

normally distributed random events
mean=0; sd = 1

tilt and rotation independent



Simulation of rolling object

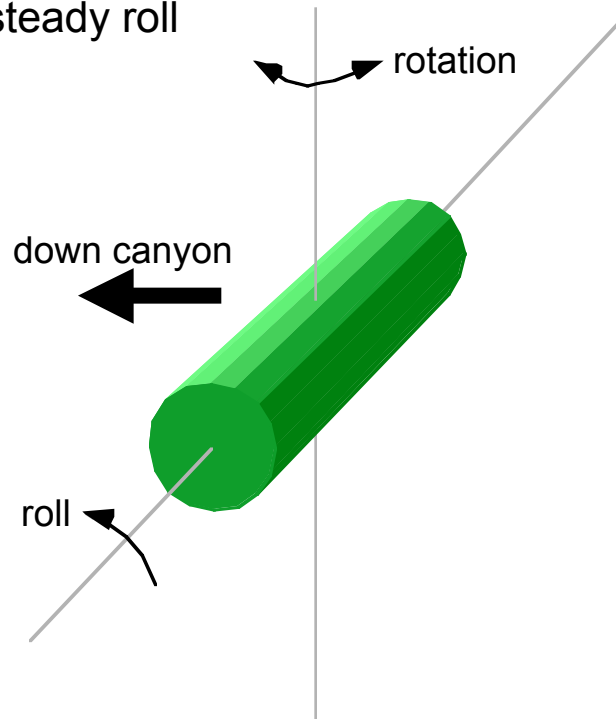
750 samples

normally distributed random events

mean=0; sd = 1

roll and azimuth independent

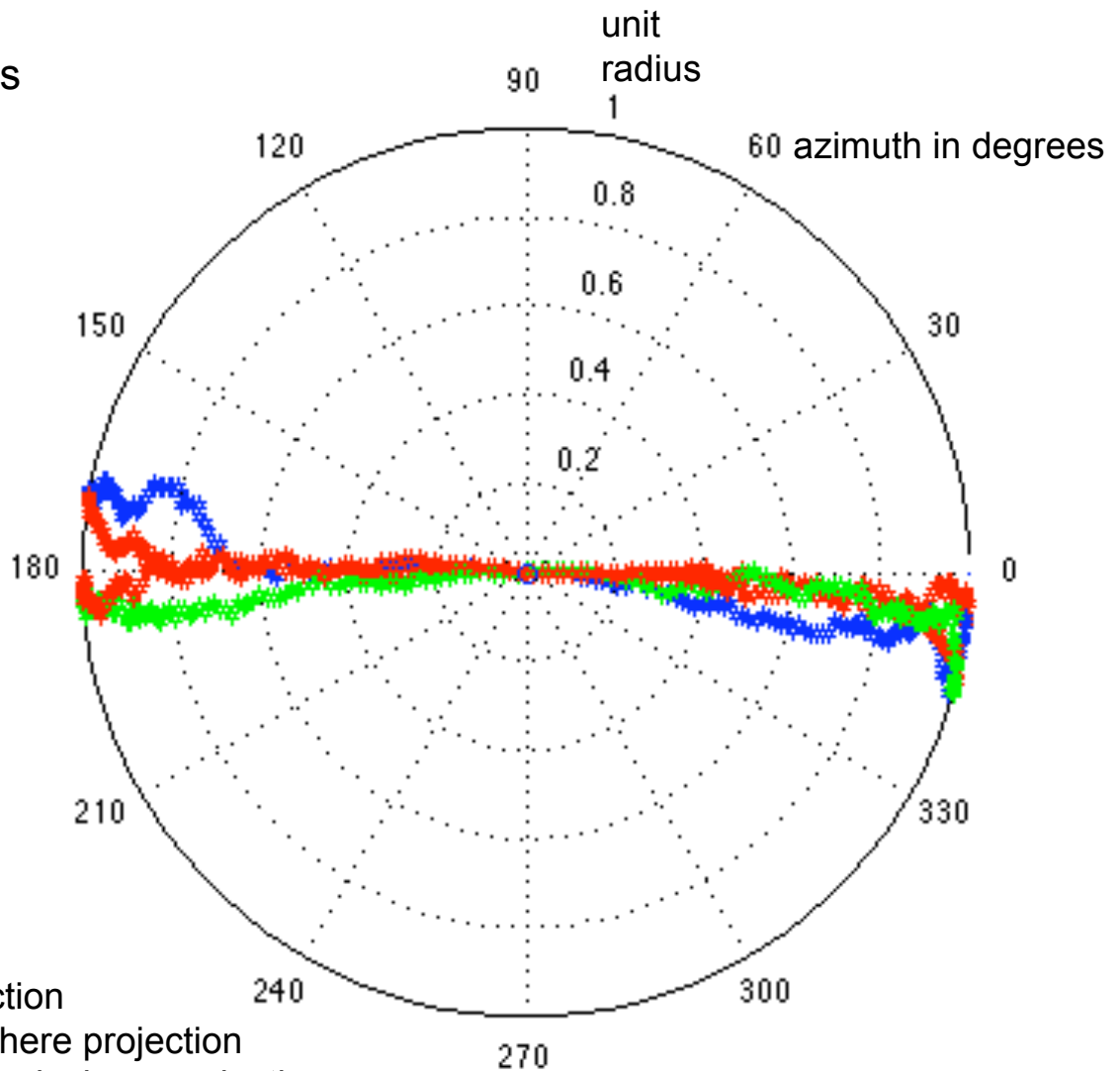
steady roll



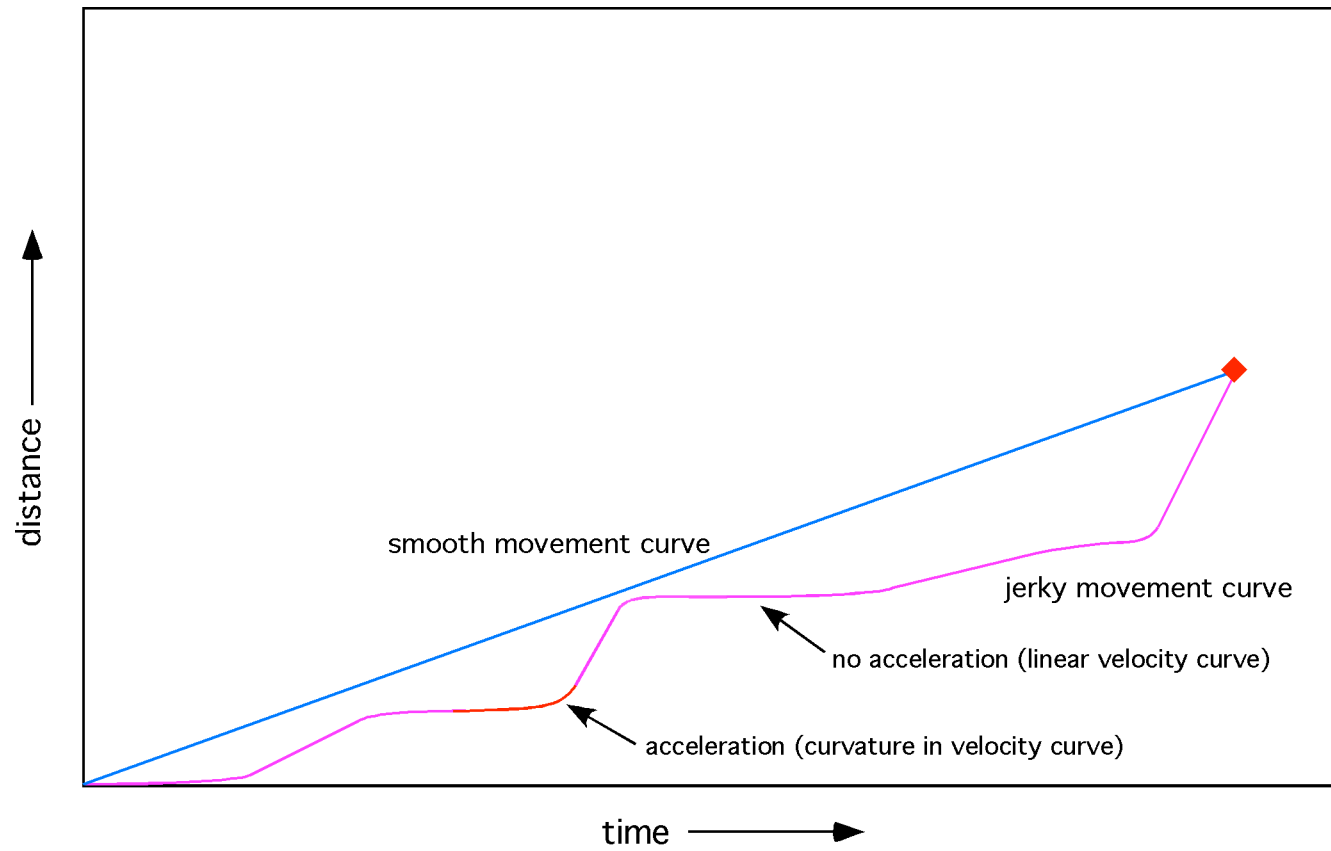
red symbols - upper hemisphere projection

blue symbols - first roll in lower hemisphere projection

green symbols - second roll in lower hemisphere projection



Hypothetical displacement curves



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