Two dimension Ground Motion Data

1.

GMD

y

x GMD

2.

GMD
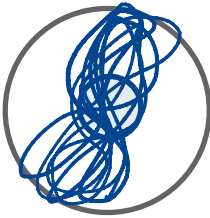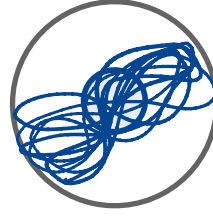
y

x GMD
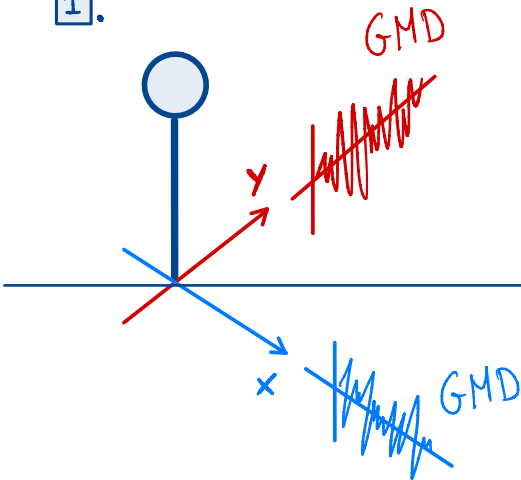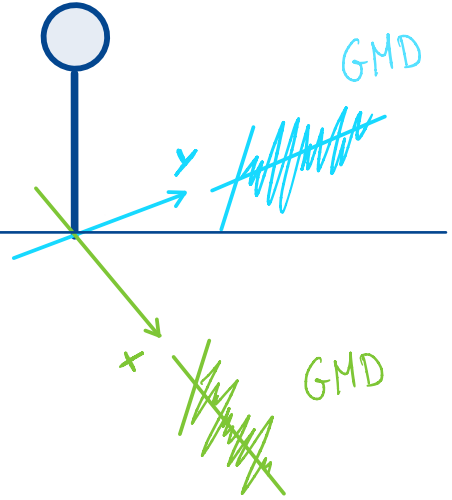
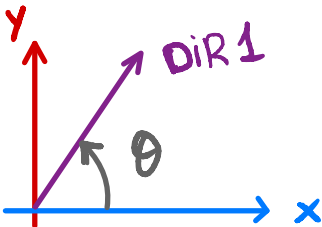- Lollipop movement: Same values, only different direction

1.

2.

- Changing 2 Dimension GM input to 1 Dimension GM input:

y

DIR 1

θ

x

$$DIR\,1 = x \cdot \cos\theta + y \cdot \sin\theta$$