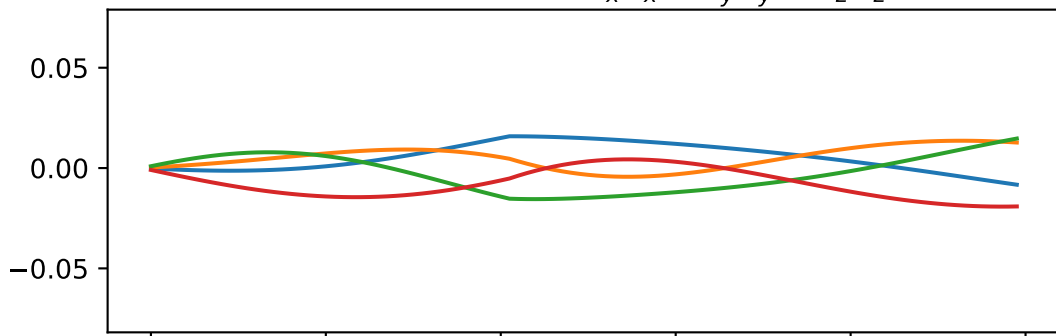


$$D=1 \text{ no chaos: } H = S_x^1 S_x^2 + S_y^1 S_y^2 + S_z^1 S_z^2$$



$$D=1 \text{ chaos: } H = S_x^1 S_x^2 + S_y^1 S_y^2 + S_z^1 S_z^2 + S_x^1 - S_z^2$$

