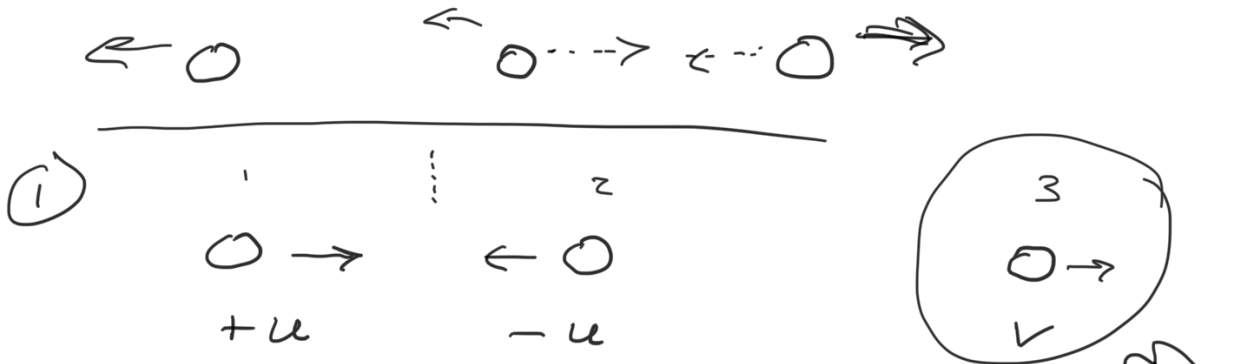
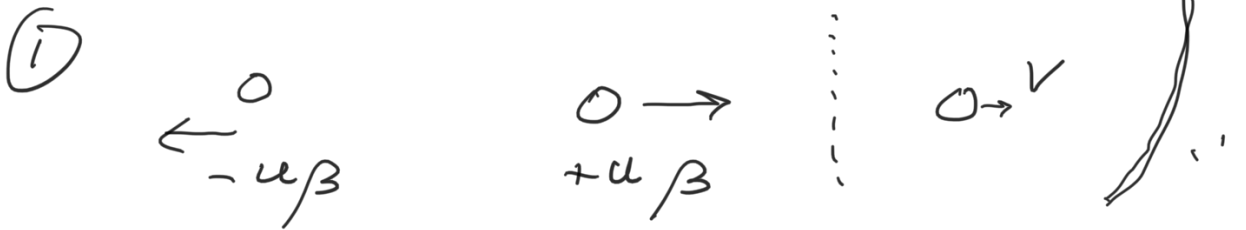


# 1D billiards



$\beta$  = fractional velocity loss



c.m. of 2 & 3

$$\frac{u\beta + v}{2} = \text{c.m. velocity}$$

