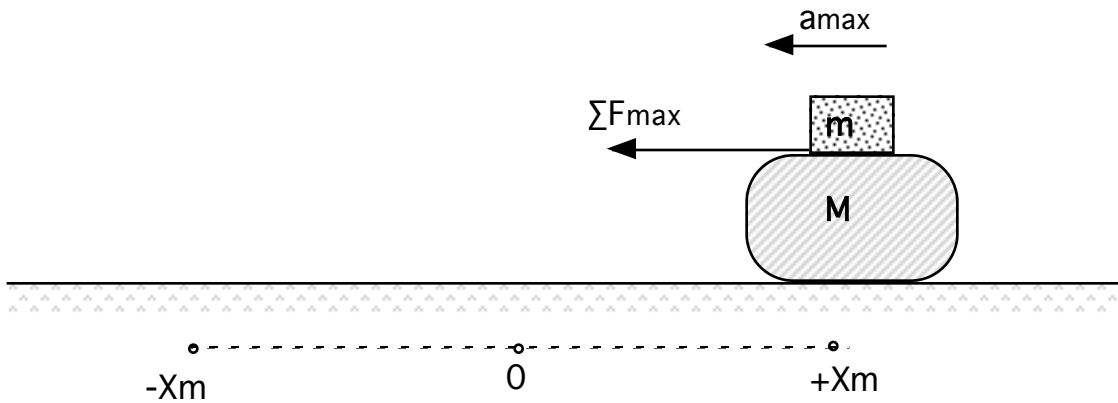


## ATTACHMENT

Block  $m$  is on top of block  $M$ , moving with SHM of period  $T$ , on a horizontal frictionless surface, between  $+X_m$  and  $-X_m$ . The coefficient of friction between the two blocks is  $\mu$ .



Note that the moving object is shown located at  $+X_m$ , where the maximum leftward net force on it is the maximum friction force ' $\mu m g$ '.