







Three carts move without friction on an air track. (Only part of the track is shown. It's actually much longer.) They are connected by springs whose mass can be ignored and have negligible internal friction. Carts 2 and 3 are held fixed, cart 1 is pulled to the left and all three carts are released at the same time. For the **system** consisting of the 3 carts and 2 springs. In the time interval from just after the carts are released until just before the first cart hits the bumper at the end of the track: Is the mechanical energy conserved? G н A. Yes (89%) MMM M₃ M. Ma B. No (10%) C. Not enough info to tell. 12/2/16 Physics 131 6





