

An Exercise on Modified Gravity
(Note: excerpt from Prof. Babichev lecture)
ISHEAP2026 (13th-20th August 2026)

The Institute for Fundamental Study, Naresuan University, Thailand

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1. (see around minutes 49-52) Try to understand the constraint analysis of

$$L = \frac{1}{2}\dot{s}^2 - \dot{\chi}\dot{q} - \chi s \tag{1}$$