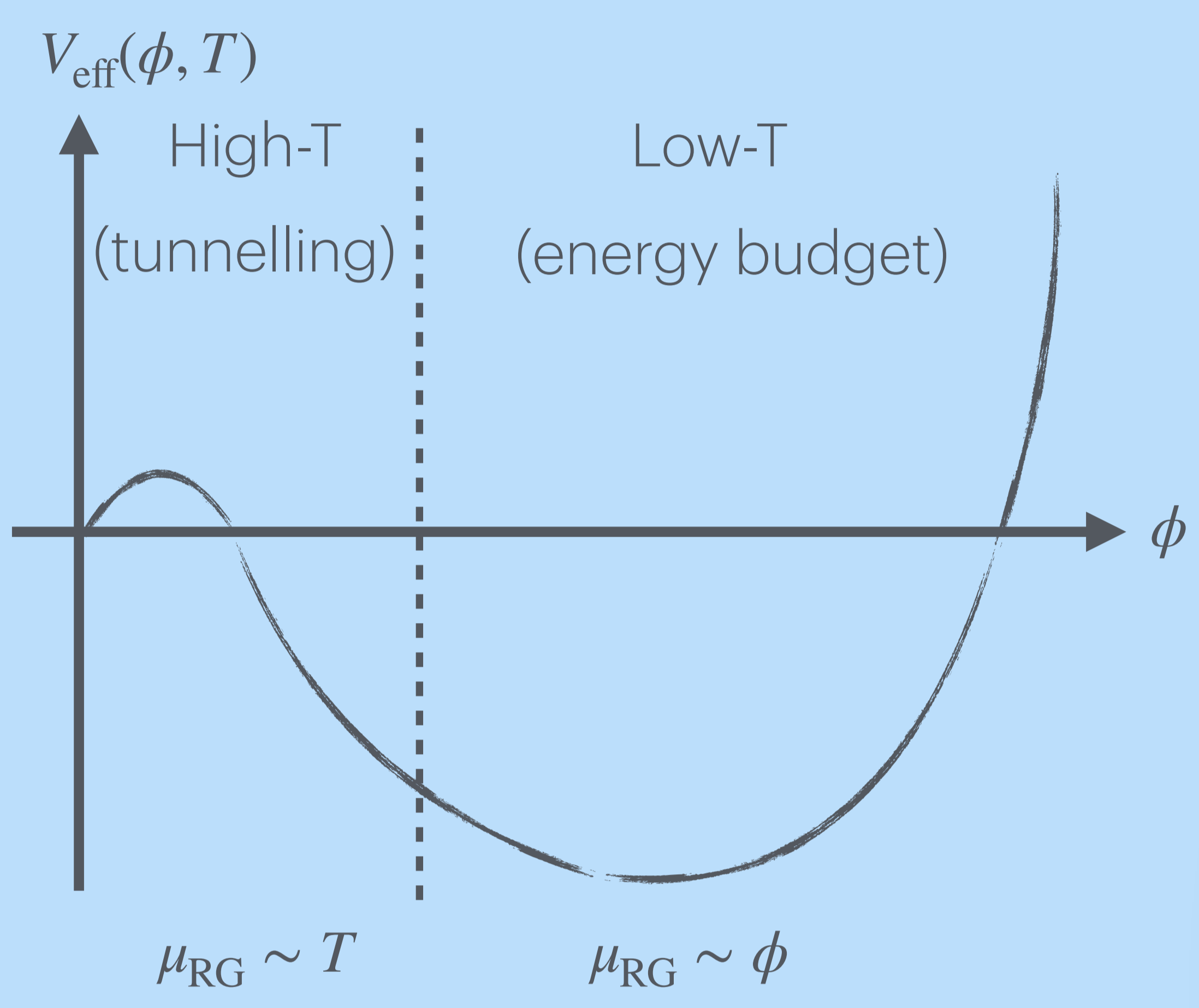


EFT for supercooled phase transitions

Maciej Kierkla (University of Warsaw),
Bogumiła Świeżewska, Tuomas V.I. Tenkanen and Jorinde van de Vis

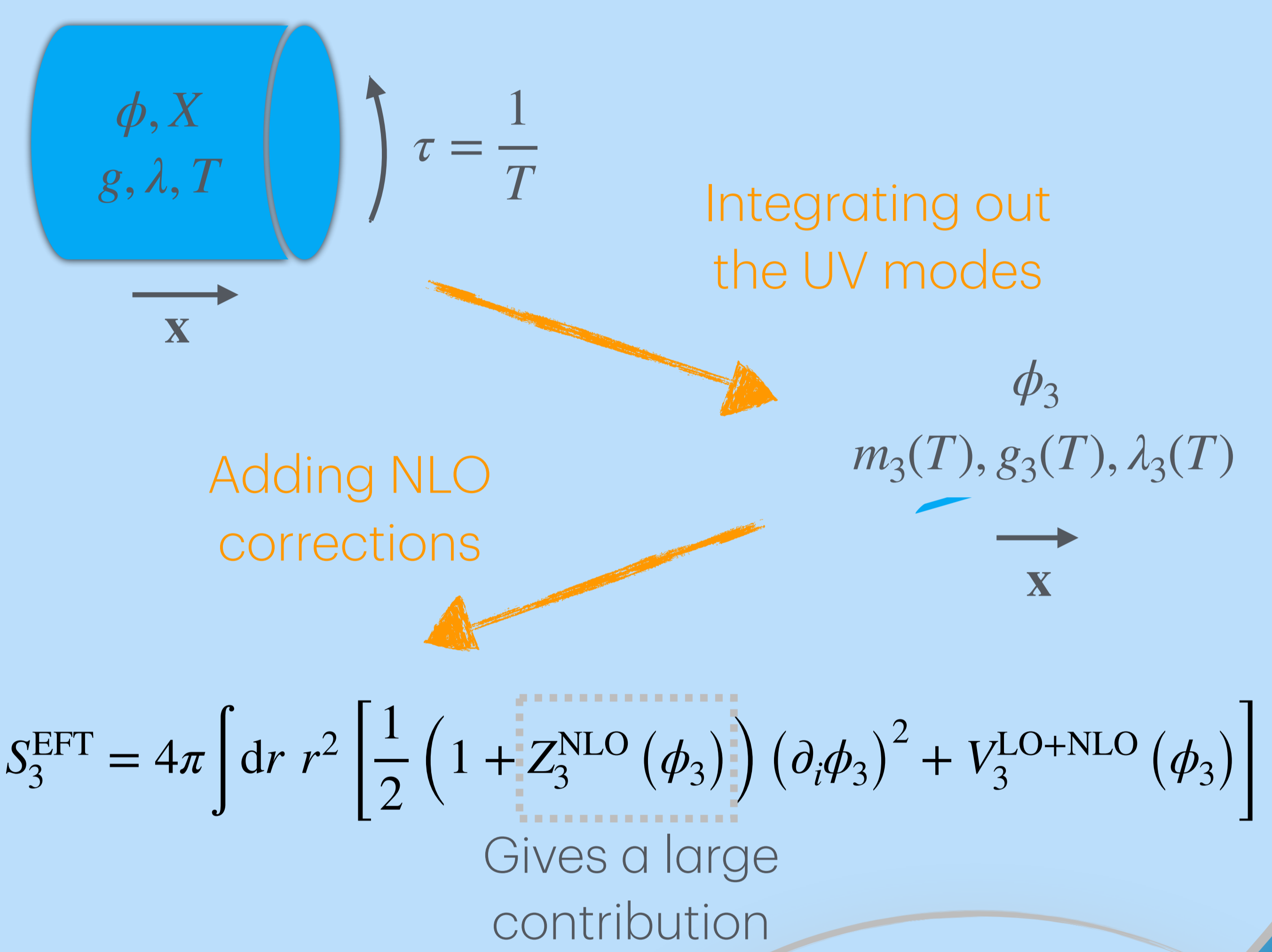
Supercooled PT in a classically scale-invariant model



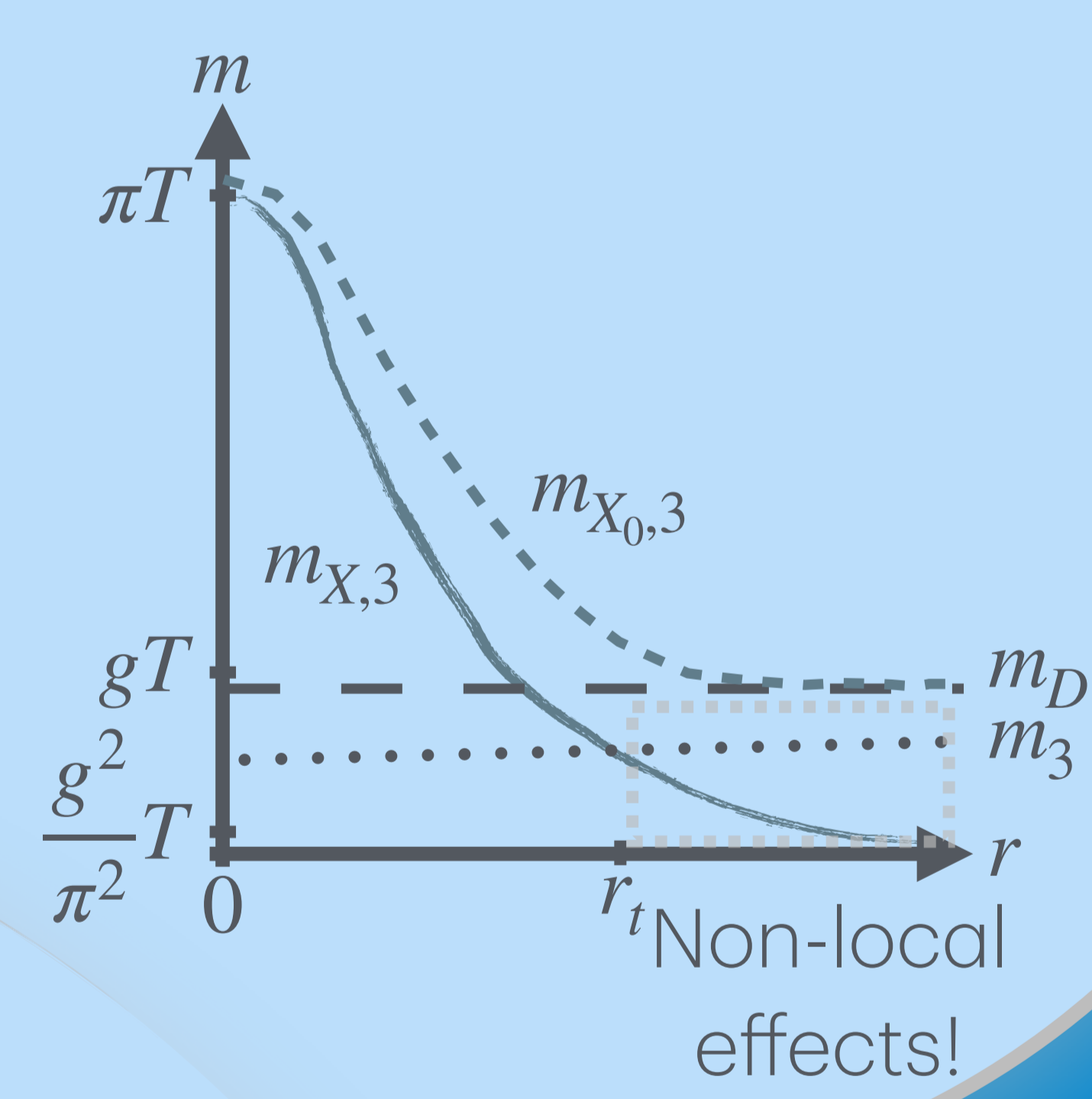
concrete model: **SU(2)cSM**

$$V_0(\phi) = \frac{1}{4}\lambda_1 h^4 + \frac{1}{4}\lambda_2 \phi^2 h^2 + \frac{1}{4}\lambda_3 \phi^4$$

High-temperature dimensional reduction

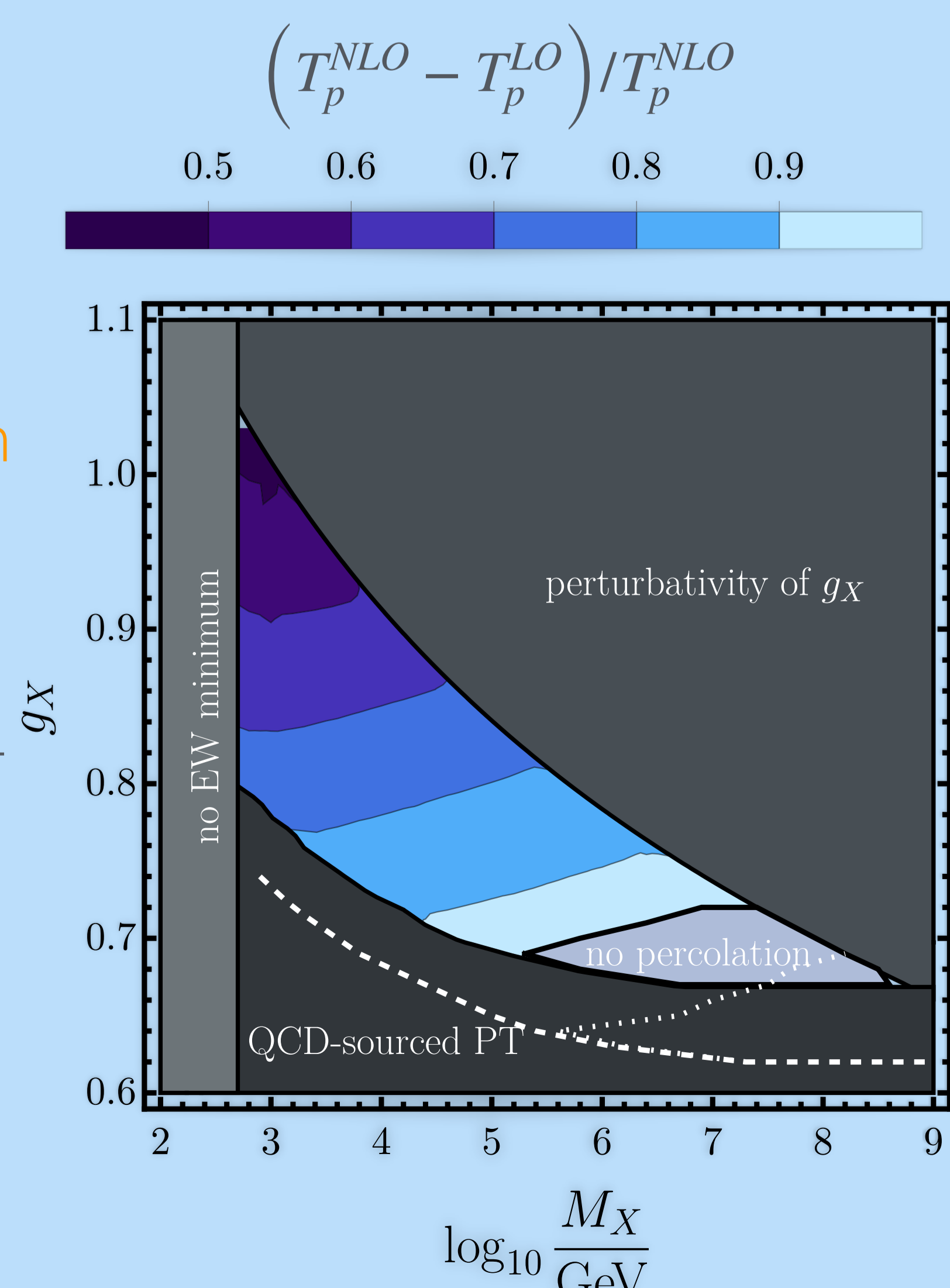


Scale-shifters



Results

Higher-order thermal corrections **can** and **should** be included in models with supercooled PT



NLO effects modify "daisy" results significantly, but there are caveats: **Z-factor** and **scale-shifters**

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