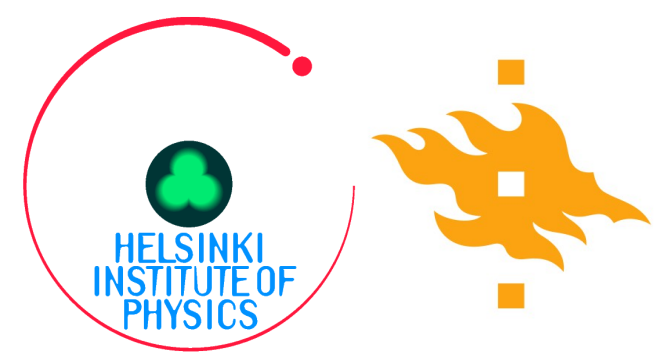




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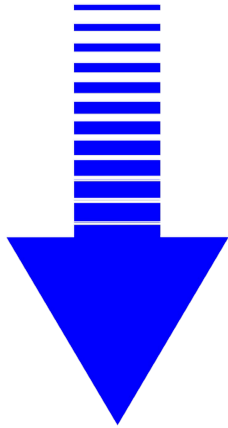
Searching for a connection between inflation and electroweak physics

Tommi Tenkanen

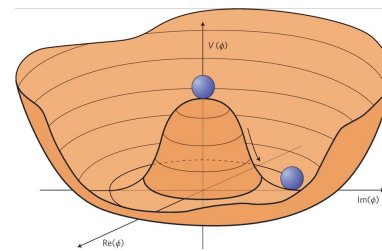
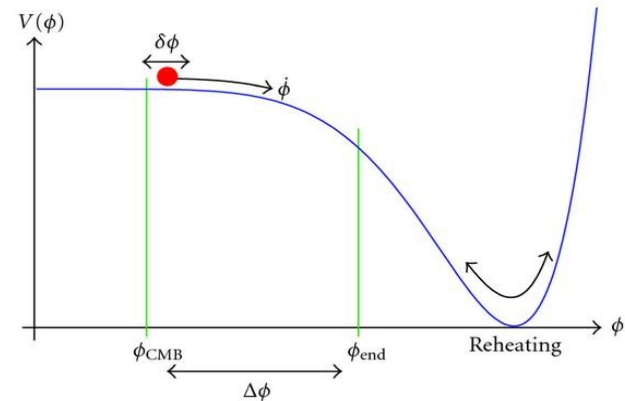
PAP-PAPU Meeting
12.12.2016

History of the early universe (the standard view)

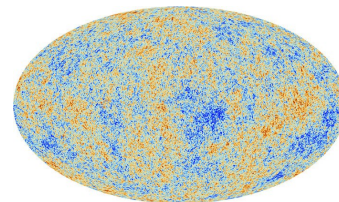
Cosmic inflation



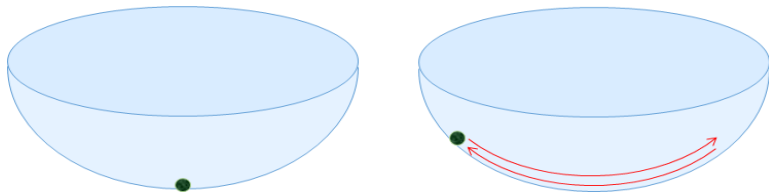
Baryogenesis, Dark Matter,
Cosmic Microwave
Background ...



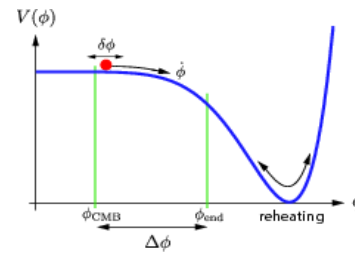
dreamstime.com



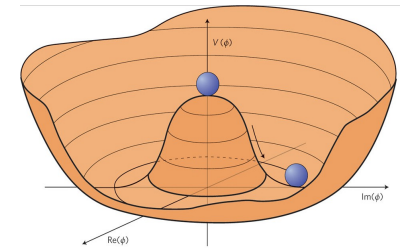
Some examples



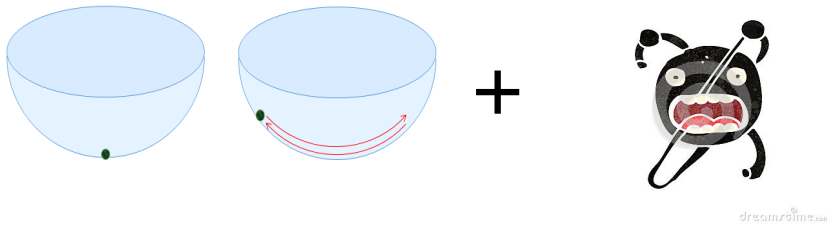
'Standard Model with a real singlet scalar and inflation', Enqvist, Nurmi, Tenkanen, Tuominen, arXiv:1407.0659



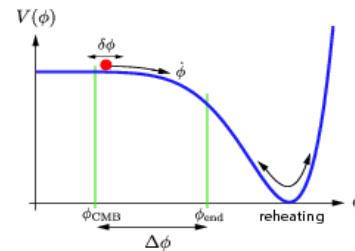
+



'A Strong Electroweak Phase Transition from the Inflaton Field', Tenkanen, Tuominen, Vaskonen, arXiv:1606.06063



'Inflationary Imprints on Dark Matter', Nurmi, Tenkanen, Tuominen, arXiv:1506.04048



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'Feebly Interacting Dark Matter Particle as the Inflaton', Tenkanen, arXiv:1607.01379

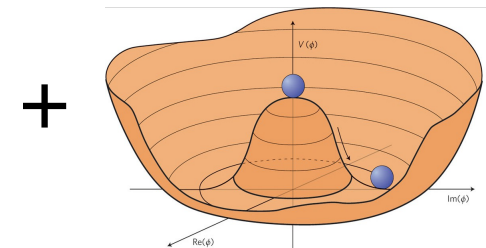
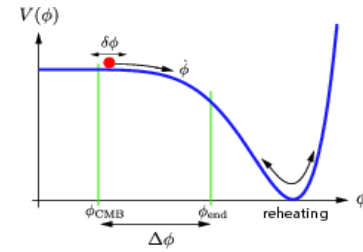
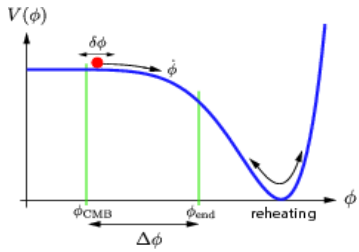


'Isocurvature Constraints on Portal Couplings', Kainulainen, Nurmi, Tenkanen, Tuominen, Vaskonen, arXiv:1601.07733

More examples



'Observational Constraints on Decoupled Hidden Sectors',
Heikinheimo, Tenkanen, Tuominen, Vaskonen, arXiv:1604.02401



'Reheating the Standard Model from a Hidden Sector',
Tenkanen, Vaskonen, arXiv:1606.00192

'Inflation and pseudo-Goldstone Higgs',
Alanne, Sannino, Tenkanen, Tuominen,
arXiv:1611.04932

Now studying

