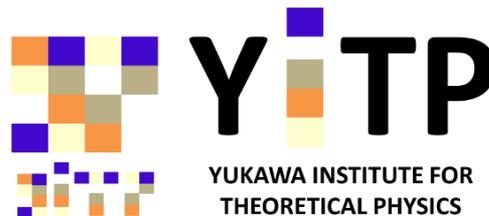


The effect of multi-field interactions on false vacuum decay

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Poster Number 67



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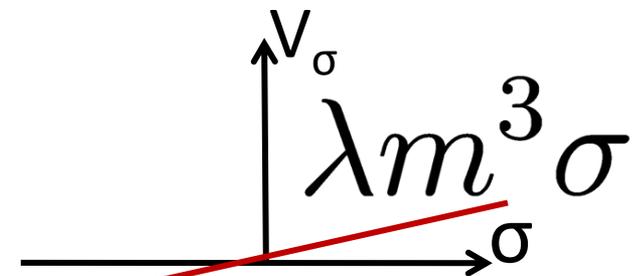
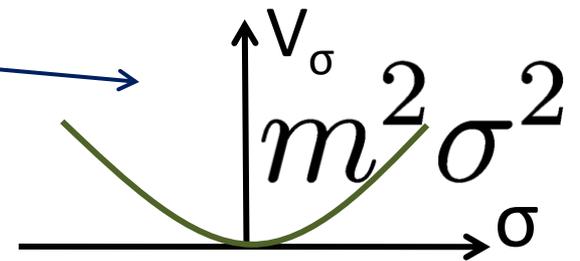
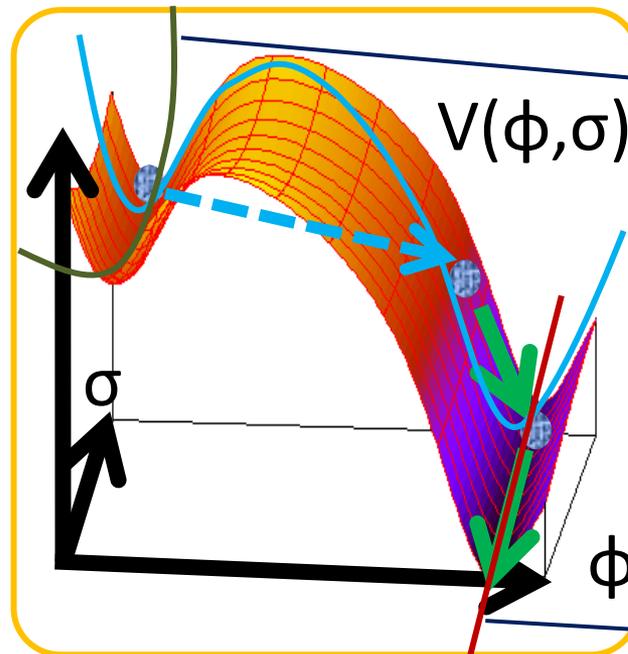
Motivations

- Multi-field tunneling occurs on string-landscape
- Method of instanton is often used to describe quantum tunneling
- It was not known whether multi-field instanton exists



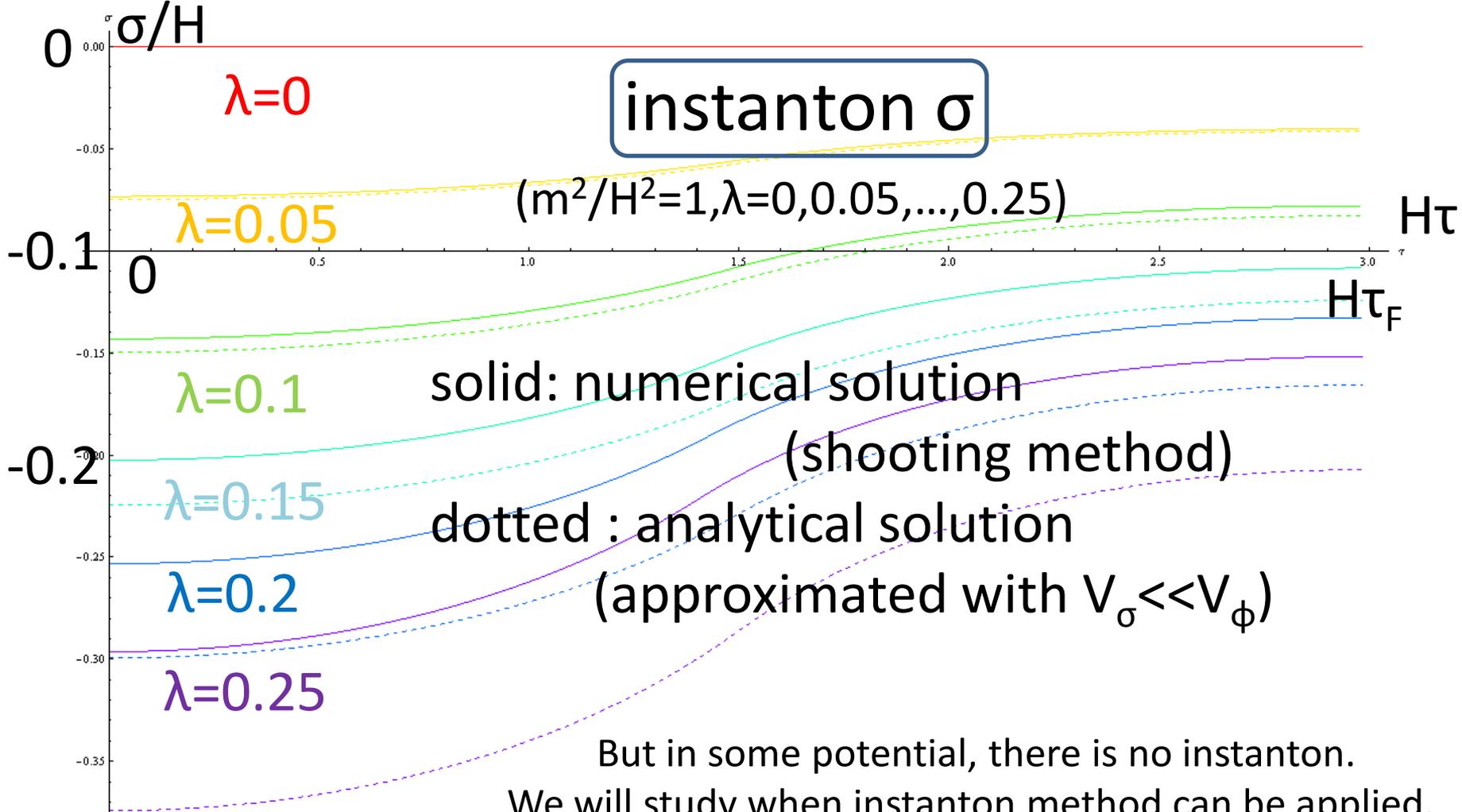
We study whether multi-field instanton exists.

We study this potential.



Results

we found multi-field instanton does **exist** in this potential



But in some potential, there is no instanton.
We will study when instanton method can be applied.