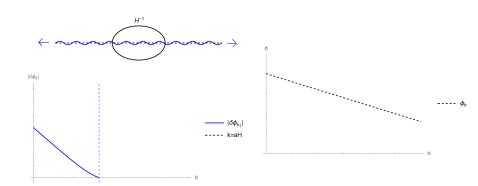
NON-MARKOVIAN EFFECTS IN STOCHASTIC INFLATION.

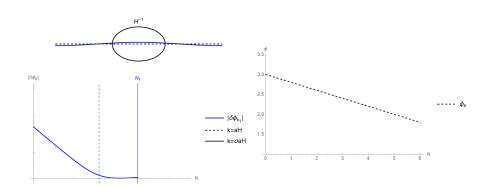
DIEGO CRUCES

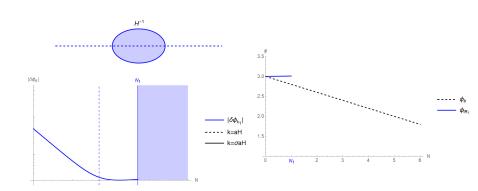
ITP - CAS (BEIJING)

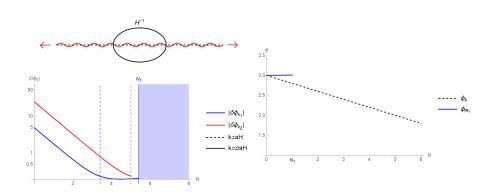
WORK IN PROGRESS WITH T. KURODA.

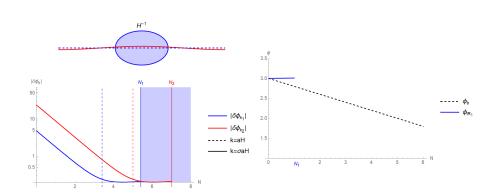
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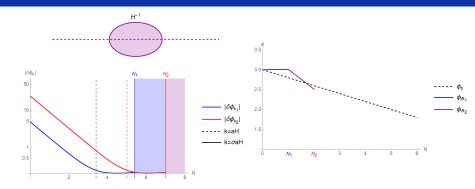












- From N_1 to N_2 , the red mode evolves over a background modified by the blue mode \rightarrow Memory effect! \rightarrow Non-Markovian process.
- How can we model these effects analytically?
- How are they related with cosmological perturbation theory?