Accelerating Cosmologies in Dilatonic Einstein-Gauss-Bonnet Gravity in the String Frame

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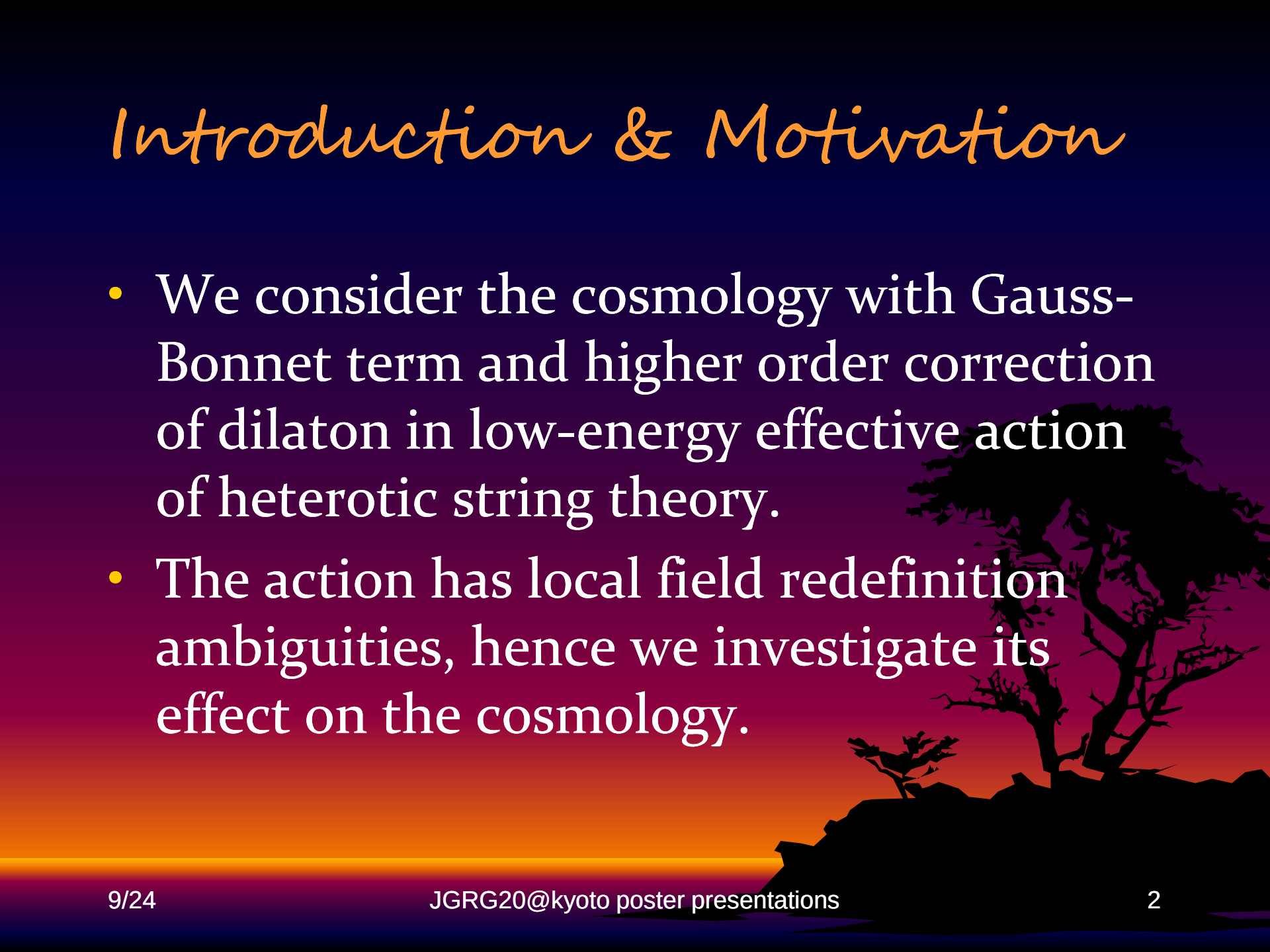
Introduction & Motivation

- We consider the cosmology with Gauss-Bonnet term and higher order correction of dilaton in low-energy effective action of heterotic string theory.
- The action has local field redefinition ambiguities, hence we investigate its effect on the cosmology.



Main result

- We find the exponentially accelerating expansion in 4 dimensional space. In that case, external space expands and internal space shrinks.

Our poster is presented at No.78

Thank you for your attention !