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## Enlightening the primordial dark ages

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# **Enlightening the Primordial Dark Ages**

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geboren te Kyiv (Oekraïne)  
in 1992

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The cover shows the spotlight that illuminates four pieces of a puzzle that represent chapters of this thesis (clockwise): the potential of shift-symmetric orbital inflation (Chapter 2), the three-dimensional plot of inflationary and reheating trajectories on the two-field  $\alpha$ -attractor potential (Chapter 4), the three-dimensional Floquet chart with resonance bands (Chapter 5), tachyonic growth of the left-polarized gauge field mode function around the time of horizon crossing (Chapter 3). However, many pieces of the primordial dark ages puzzle are still unknown. It is a challenge for modern cosmology to discover and put them together.

*To my family*



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