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## Recent developments in formal high energy physics

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I will review several recent important developments in high energy physics, including:

- Perturbative and non-perturbative results in supersymmetric non-abelian gauge theories (AdS / CFT, Localisation, non-Lagrangian theories).
- Superstring and supergravity amplitudes, 3-loop amplitude in string theory, color kinematic duality and double copy, BMS symmetry and infrared behaviour.
- Black hole information paradox, Mathur conjecture and exact counting through localisation.

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**Classification de Session:** New Theoretical Developments