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The Ultra-relativistic Expansion of General Relativity

In this talk I will discuss the ultra-relativistic expansion of general relativity. The ultra-relativistic expansion in the speed of light captures very strong gravitational field effects and extreme astrophysical phenomena in a simplifying setting compared to full GR. Surprisingly it also turns out that the ultra-relativistic expansion is closely related to the non-relativistic expansion, which will be elaborated on. Based on upcoming work arXiv:20XX.YYYY.

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