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## Ultra-relativistic Collisions and Black Hole Formation

*Tuesday, 21 July 2015 09:00 (1 hour)*

I will review what has been learnt in recent years about the ultra-relativistic collision problem in classical general relativity. This area has connections to super-Planck scale particle collisions and the interaction of gravitational shock waves, and addresses questions pertinent to cosmic censorship, black hole formation and the hoop conjecture. I will also discuss some open questions and problems for future research.

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