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Cosmological gravity after GW170817

Monday 5 February 2018 10:35 (20 minutes)

The near simultaneous detections of the gravitational-wave signal GW170817 and its electromagnetic counterpart GRB 170817A place stringent constraints on modified gravity theories, significantly reducing the viable range of cosmological models that have been proposed as alternatives to general relativistic cosmology. I will show how these constraints arise and what scalar-tensor, vector-tensor and tensor-tensor (bimetric) theories remain promising candidates for present-day cosmology.

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