L'espace d'un temps,

Des rayons cosmiques aux ondes gravitationnelles l' héritage d'Einstein

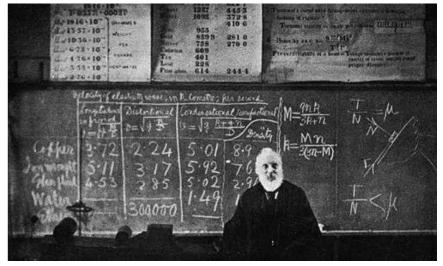
> C. Vanden Driessche Lycée Charles de Gaulle – CAEN



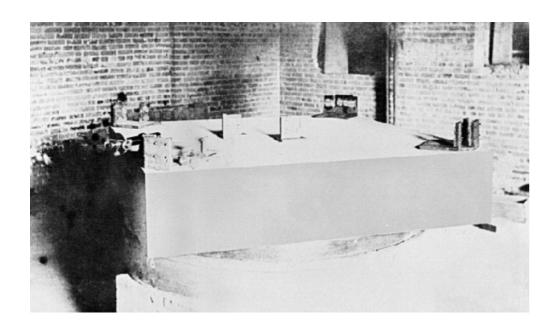
Rubrique à Brac © Gotlib - Dargaud

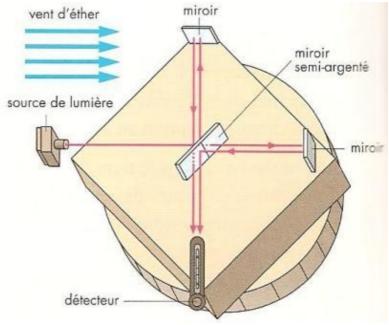
De Newton à Lord Kelvin ...





Michelson et Morley

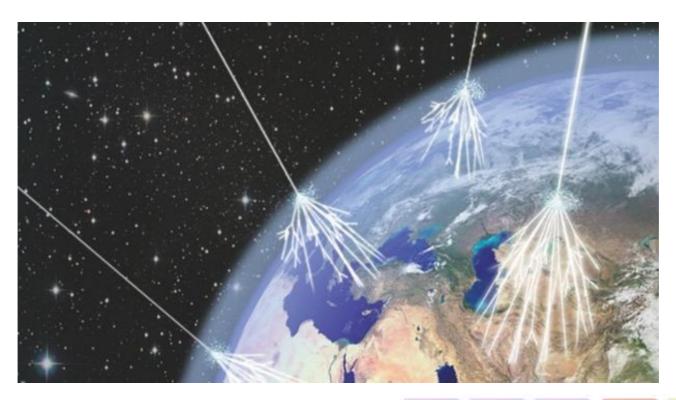


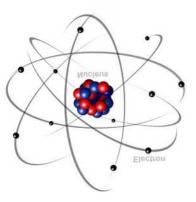


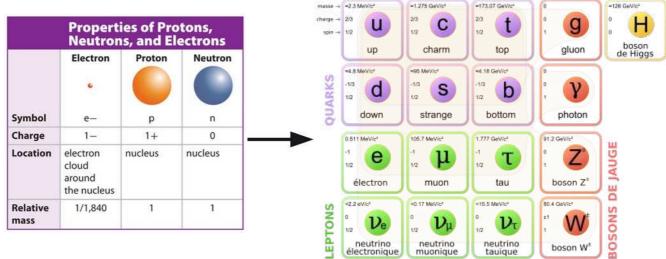
La relativité restreinte

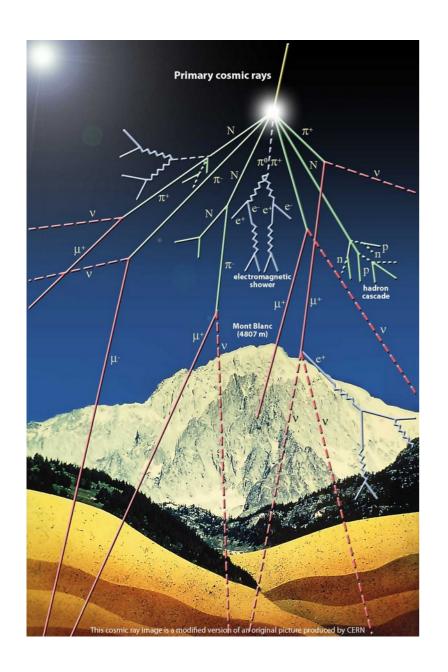


Les rayons cosmiques









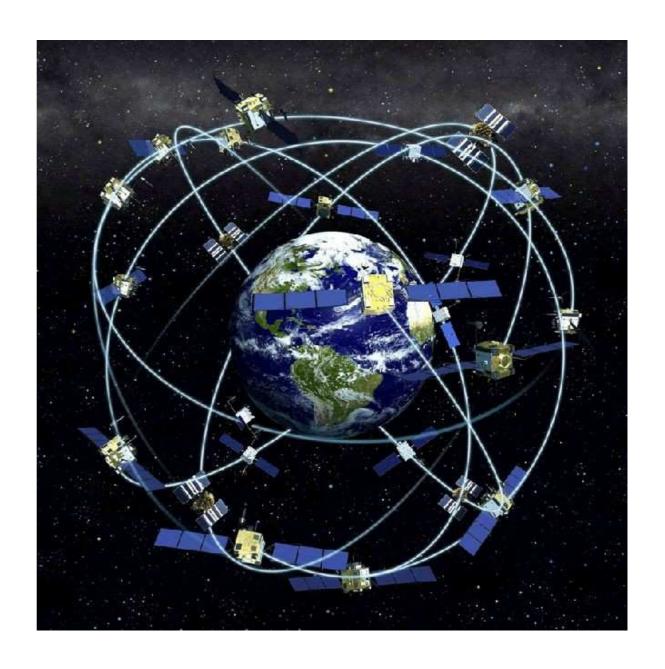
 $2.2~\mu s$

600 m

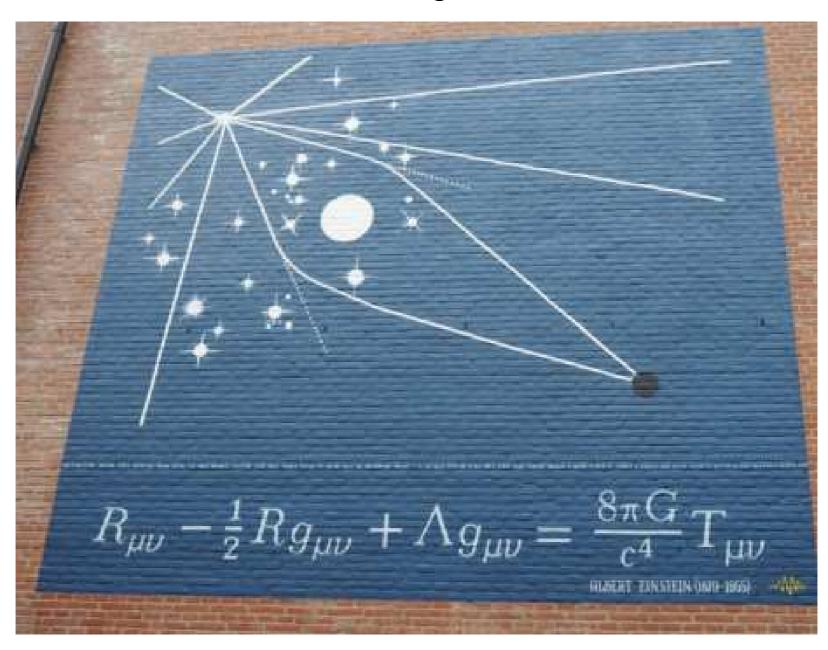


La dilatation du temps

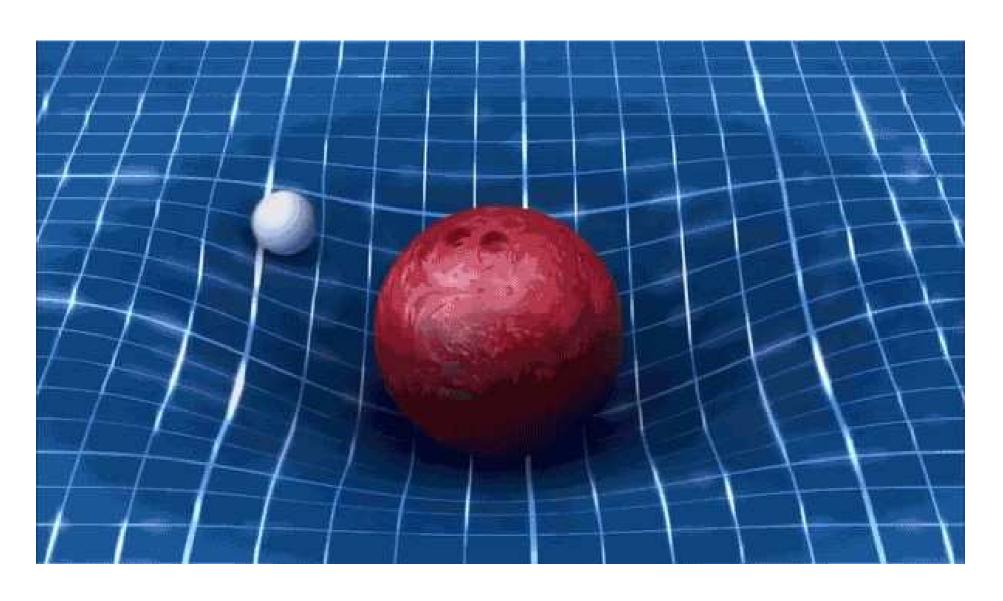
La relativité au quotidien : le GPS



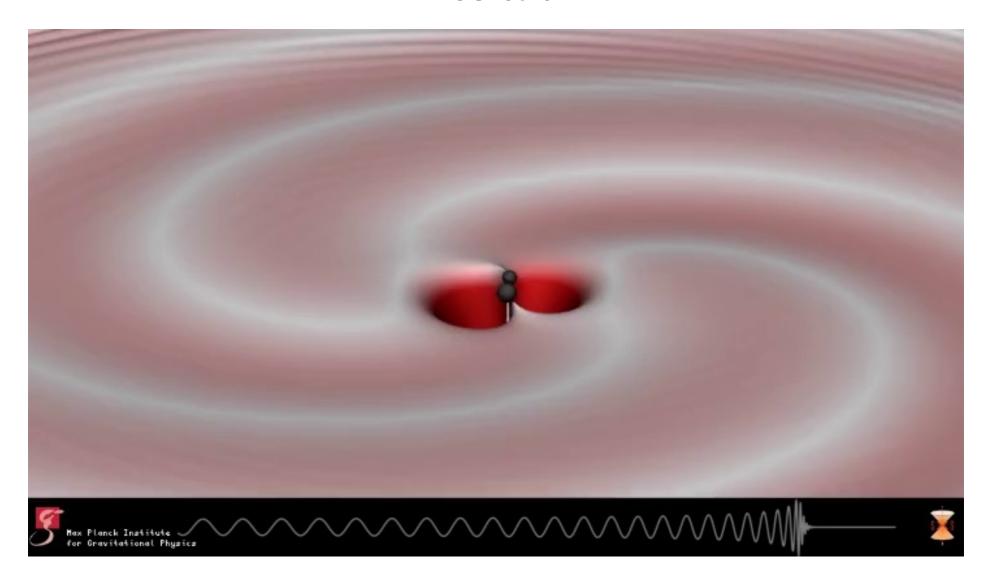
La relativité générale

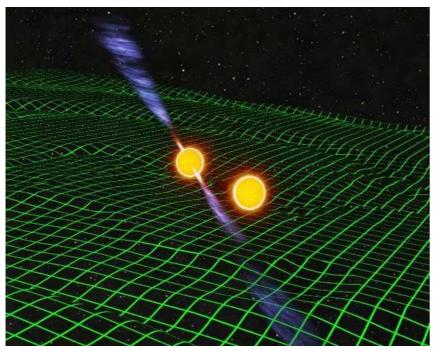


L'espace temps ...

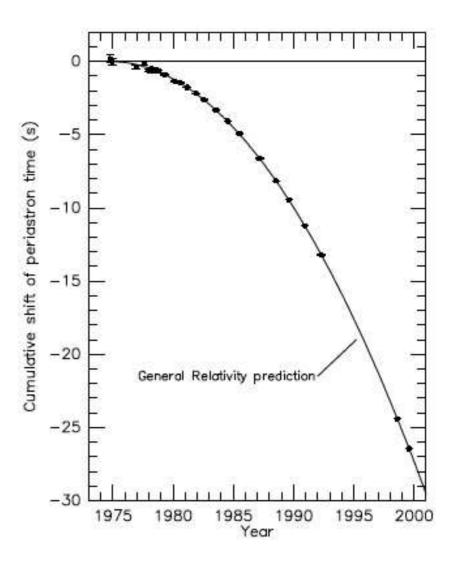


Prédiction









Détection indirecte Nobel 1993

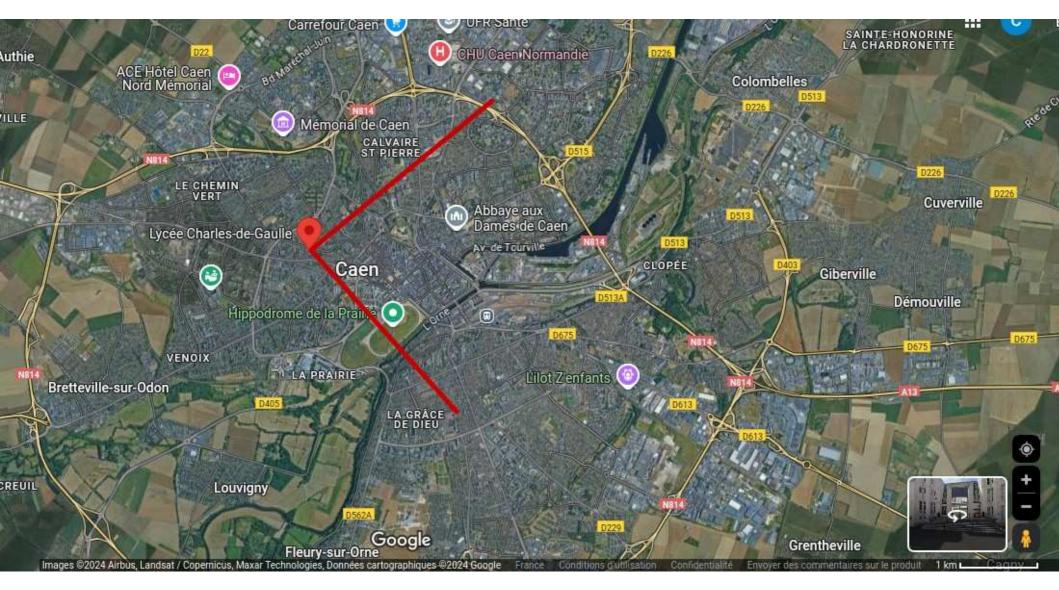
Détection directe : les barres de Weber



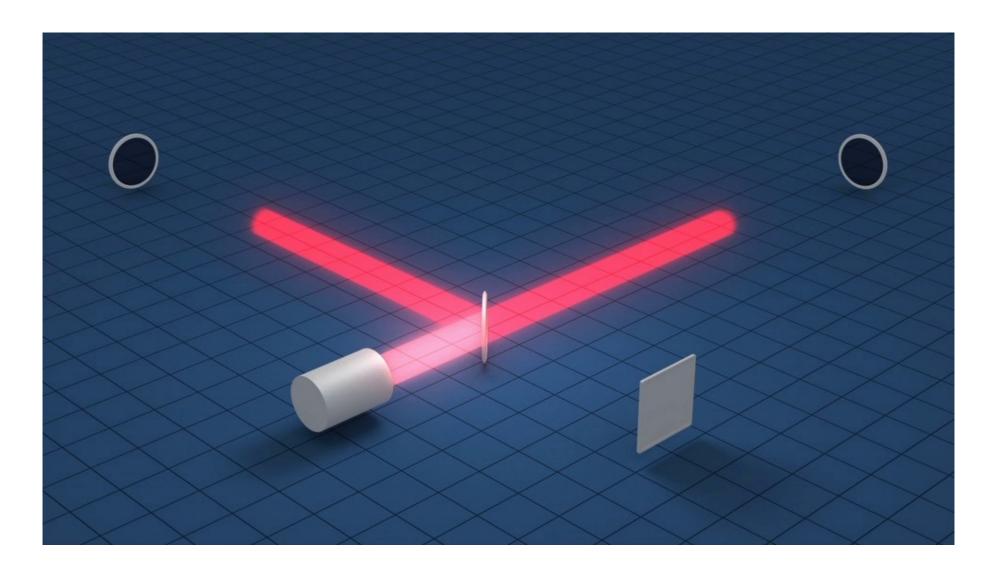
Détection directe : LIGO / VIRGO



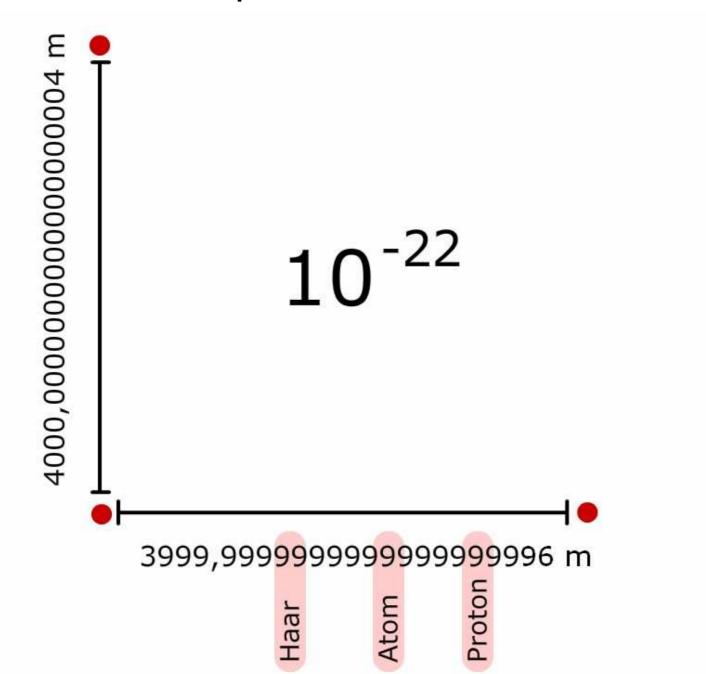
Si Virgo était à Caen ...



Le principe

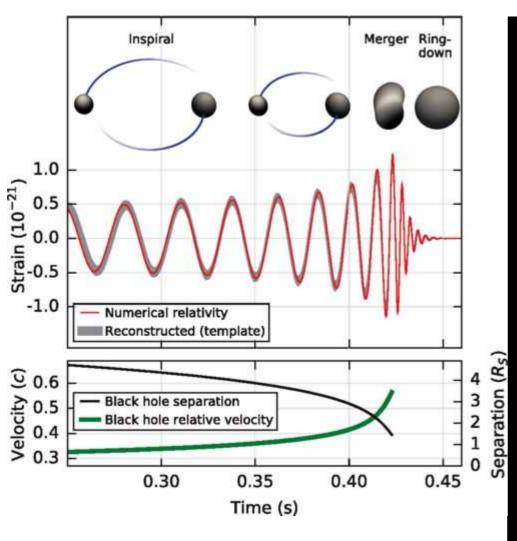


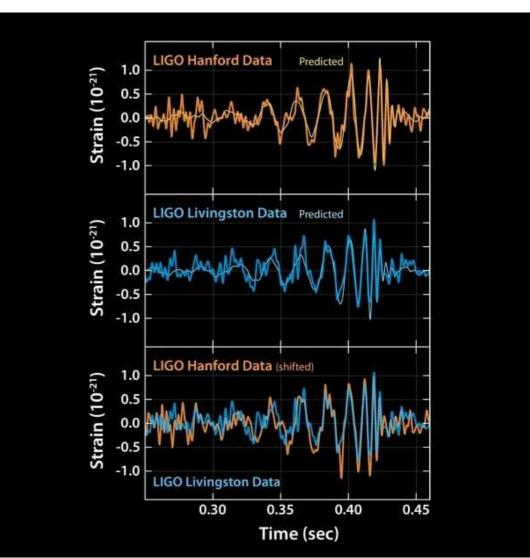
Un problème de taille ...





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Astronomie multi messagers

