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## The unity of time

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Within General Relativity there are several schemes to define a time scale. One geometry based time scale is given by the Marzke Wheeler clock or the standard clock defined by Perlick. Further time scales are given by the rotation of the Earth or pulsars around their own axis and by the rotation of objects around central gravitating bodies. And, finally, the most stable clocks today are atomic clocks. We show that all these time scales coincide within the theory of General Relativity.

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