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Two-way time transfer experiments via meteor burst communication

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Abstract

A special meteor burst equipment for the precise two-way time transfer has been developed in Kazan State University, Kazan, Russia, making time transfer with an accuracy better than 1 ns for a distance of up to 200-KM possible. A series of time transfer experiments have been performed using several meteor links to test the equipment and estimate the time transfer performances. The random error of time transfer results in these experiments was about 0.3-0.5 ns.
