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Volker Perlick Ray Optics, Fermat's Principle, and Applications to General Relativity 4 11Q Springer '14% Author Volker Perlick Technische Universit t Berlin

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2.2 (Fermat s principle for ray paths). The path $r(s)$ taken by a ray of light passing from A to B The path $r(s)$ taken by a ray of light passing from A to B in three-dimensional space leaves the optical length stationary under variations in a family of

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Fermat's principle Wikipedia

In optics, Fermat's principle or the principle of least time, named after French mathematician Pierre de Fermat, is the principle that the path taken between two points by a ray of light is the path that can be traversed in the least time.

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Lecture Notes in Physics Monographs 61 Ray Optics, Fermat s Principle, and Applications to General Relativity Bearbeitet von Volker Perlick 1. Auflage 2000.

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