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Manuel Pédagogique : Interféromètre de Fabry Pérot

The manual starts with the introduction and mathematical treatment of the interference of two beams. The number of beams is increased resulting in multi beam interferometer represented as the Fabry Perot interferometer. The differences of the ideal and practical Fabry Perot are explained in detail. The spherical arrangement is introduced and the characteristic parameters like optical and limiting Finesse, free spectral range and resolution are discussed. The measurement of these parameters with the setup is explained step by step. The mode spectrum of the provided probe laser is measured and interpreted. Finally the plane mirror Fabry Perot is used and the effect of the beam diameter on the limiting finesse is measured.