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# Three-component long-focus catadioptric system

© S.V. Bodrov

Bauman Moscow State Technical University, Moscow, 105005, Russia

*A procedure of design of the long-focus catadioptric system that contains two Mangin mirrors and single lens compensator in a parallel light beam is considered. Aspects of the initial optical scheme image quality improvement by means of optimization with the help of OPAL program are discussed.*

**Keywords:** *mirror-lens objective, Mangin mirror, optical system optimization, modulation transfer function.*

**Bodrov S.V.** (b. 1957) graduated from Bauman Moscow Higher Technical School in 1981. Ph. D., Assoc. Professor of the Optoelectronic Research Devices Department of Bauman Moscow State Technical University. Author of more than 40 publications in the field of design of optical systems of optical and electronic instruments.