

Investigation of metal mirrors for space communication applications

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Every year it is growing the volume of information that it is necessary to transmit on Earth, in Space and in between. This is especially of high importance for novel space quantum communication applications. In current study, we report a systematic investigation on the metal high reflective mirrors. It will be discussed the preparation process, investigation of optical properties and stability. The whole mirrors structure was manufactured by magnetron sputtering technology. The magnetron sputtering technology is well established method for thin film production. It is well known for high deposition rate, high accuracy, high process stability, densified material structure and smooth surface area.

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