

# TECHNOLOGY Lunar Laser Ranging Array for the 21st Century - LLRA-21

#### **OVERVIEW**

This invention proposes one or more improved retroreflector arrays on the moon. Today the linear dimension of the array, combined with the (geometric) lunar librations, results in a return pulse that has a full with at half maximum (FWHM) of about 8 cm. The improvement is by a factor of 5. the goal of this invention is to provide an improved array that offers the possibility of another factor of 10,000 improvement in the range, down to the micron level. This will allow the identification of which retroreflector returns which photon, which is not possible with the meter sized arrays currently on the Moon.

### **CONTACT INFO**

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# **Additional Information**

#### INSTITUTION

University of Maryland, College Park

# PATENT STATUS

Patent(s) pending

#### LICENSE STATUS

Contact OTC for licensing information

# CATEGORIES

- Sensors/Monitors
- Engineering

### **EXTERNAL RESOURCES**

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