## **Accepted Manuscript**

Far-infrared Elastic Scattering Proposal for the Avogadro Project's Silicon Spheres

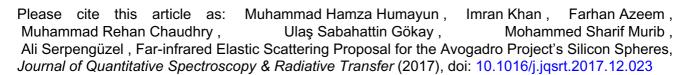
Muhammad Hamza Humayun , Imran Khan , Farhan Azeem , Muhammad Rehan Chaudhry , Ulaş Sabahattin Gökay , Mohammed Sharif Murib , Ali Serpengüzel

PII: S0022-4073(17)30606-4 DOI: 10.1016/j.jqsrt.2017.12.023

Reference: JQSRT 5939

To appear in: Journal of Quantitative Spectroscopy & Radiative Transfer

Received date: 4 August 2017
Revised date: 23 November 2017
Accepted date: 22 December 2017



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



#### ACCEPTED MANUSCRIPT

#### Highlights

- far-IR spectroscopy for determining the Avogadro constant by using elastic scattering from the 100 mm silicon spheres is proposed,
- near-IR spectroscopy already relates WGMs of the 1 mm silicon spheres diameter of the spheres,
- numerical simulations in the far-IR and the near-IR are presented,
- · spatially scaled down elastic scattering measurements in the near-IR are presented,
- diameter measurements of 100 mm silicon spheres with elastic scattering in the far-IR can be an alternative method.



### Download English Version:

# https://daneshyari.com/en/article/7846076

Download Persian Version:

https://daneshyari.com/article/7846076

<u>Daneshyari.com</u>