

MarcoPolo-R near earth asteroid sample return mission

Maria Antonietta Barucci · A. F. Cheng · P. Michel · L. A. M. Benner · R. P. Binzel · P. A. Bland · H. Böhnhardt · J. R. Brucato · A. Campo Bagatin · P. Cerroni · E. Dotto · A. Fitzsimmons · I. A. Franchi · S. F. Green · L.-M. Lara · J. Licandro · B. Marty · K. Muinonen · A. Nathues · J. Oberst · A. S. Rivkin · F. Robert · R. Saladino · J. M. Trigo-Rodriguez · S. Ulamec · M. Zolensky

Received: 21 March 2011 / Accepted: 3 June 2011 / Published online: 20 July 2011
© Springer Science+Business Media B.V. 2011

Abstract MarcoPolo-R is a sample return mission to a primitive Near-Earth Asteroid (NEA) proposed in collaboration with NASA. It will rendezvous with a primitive NEA, scientifically characterize it at multiple scales, and

M. A. Barucci (✉)

Paris Observatory, LESIA, 5, Place J. Janssen, 92195 Meudon Principal Cedex, France
e-mail: antonella.barucci@obspm.fr

A. F. Cheng · A. S. Rivkin

Applied Physics Laboratory, John Hopkins University, Laurel, MD, USA

P. Michel

CNRS, Côte d'Azur Observatory, University of Nice-Sophia Antipolis, Nice, France

L. A. M. Benner

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA

R. P. Binzel

Massachusetts Institute of Technology, Cambridge, MA, USA

P. A. Bland

Imperial College, London, UK

H. Böhnhardt · A. Nathues

Max Planck Institute for Solar System Research, Katlenburg-Lindau, Germany

J. R. Brucato

Osservatorio Astrofisico di Arcetri, INAF, Firenze, Italy

A. Campo Bagatin

Universidad de Alicante, Alicante, Spain

P. Cerroni

Istituto di Astrofisica Spaziale e Fisica Cosmica, INAF, Rome, Italy