

GETEMME—a mission to explore the Martian satellites and the fundamentals of solar system physics

Jürgen Oberst · Valéry Lainey · Christophe Le Poncin-Lafitte ·
Veronique Dehant · Pascal Rosenblatt · Stephan Ulamec · Jens Biele ·
Jörn Spurmann · Ralph Kahle · Volker Klein · Ulrich Schreiber ·
Anja Schlicht · Nicolas Rambaux · Philippe Laurent · Benoît Noyelles ·
Bernard Foulon · Alexander Zakharov · Leonid Gurvits · Denis Uchaev ·
Scott Murchie · Cheryl Reed · Slava G. Turyshev · Jesus Gil ·
Mariella Graziano · Konrad Willner · Kai Wickhusen · Andreas Pasewaldt ·
Marita Wählisch · Harald Hoffmann

Received: 1 April 2011 / Accepted: 13 June 2012 / Published online: 12 September 2012
© Springer Science+Business Media B.V. 2012

Abstract GETEMME (Gravity, Einstein’s Theory, and Exploration of the Martian Moons’ Environment), a mission which is being proposed in ESA’s Cosmic Vision program, shall be launched for Mars on a Soyuz Fregat in 2020. The spacecraft will initially rendezvous with Phobos and Deimos in

J. Oberst (✉) · K. Wickhusen · A. Pasewaldt · M. Wählisch · H. Hoffmann
German Aerospace Center (DLR), Institute of Planetary Research, Rutherfordstraße 2,
12489 Berlin, Germany
e-mail: juergen.oberst@dlr.de

K. Willner
Technical University Berlin, Berlin, Germany

V. Lainey · N. Rambaux · B. Noyelles
Institut de Mécanique Céleste et de Calcul des Éphémérides (IMCCE), Paris Observatory,
Paris, France

C. Le Poncin-Lafitte · P. Laurent
Système de Référence Temps-Espace (SYRTE), Paris Observatory, Paris, France

V. Dehant · P. Rosenblatt
Royal Observatory of Belgium (ROB), Brussels, Belgium

S. Ulamec · J. Biele
German Aerospace Center (DLR), Cologne, Germany

J. Spurmann · R. Kahle
German Aerospace Center (DLR), Oberpfaffenhofen, Germany

V. Klein
Kayser-Threde GmbH, Munich, Germany