

# INHALTSVERZEICHNIS

Burkhard Schillinger <b>Why Use Neutrons?</b> . . . . .	1
Michael Schulz, Burkhard Schillinger, Elbio Calzada, Dominik Bausenwein, Philipp Schmakat, Tommy Reimann, Peter Böni <b>The New Neutron Imaging Beam Line ANTARES at FRM II</b> . . . . .	9
Kilian Anheuser <b>Neutron Imaging from a Museum Perspective</b> . . . . .	15
Kristian J. Carlson <b>»Into the Past«: South African Heritage Objects and the Potential Benefits of Applying Neutron Based High Resolution Tomography</b> . . . . .	21
Thibault Demoulin, Rupert Gebhard, Burkhard Schillinger <b>Neutron Tomography of Archaeological Waterlogged Wood</b> . . . . .	27
Susan N. Herringer, Krysta Ryzewski, Hassina Z. Bilheux, Jean-Christophe Bilheux, Brian W. Sheldon <b>The Application of Neutron Imaging to Investigate the Design and Manufacture of a Bronze Oinochoe</b> . . . . .	35
Eszter Horváth, Massimo Rogante, György Káli, Zsolt Kasztovszky, Zoltán Kis, Imre Kovács, Boglárka Maróti, László Rosta, Zoltán Szókefalvi-Nagy <b>Neutron Investigations of a Zinc Lamp of Unknown Origin from the Academia Georgica Treiensis Archaeological Collection (Italy)</b> . . . . .	45
Ariadna Mendoza Cuevas, Luis R. Velázquez Maldonado <b>Non-invasive Archaeometrical Study with a Portable Multi-technique X-Ray System</b> . . . . .	55
Giorgia Mila, E. Durisi, Lorenzo Visca, Roberto Sacchi, Alessandro Re, Alessandro Lo Giudice, Amedeo Staiano, Alessandra Romero, Rossella Brancaccio, Giovanni Dughera, Walter Ferrarese, Giorgio Cotto, Marco Nervo, Marco Demmelbauer, Annamaria Giovagnoli, Thomas Bücherl, Francesco Grazzi, Antonella Scherillo, Nadia Pastrone <b>Neutron Imaging Studies within the »neu_ART« Cultural Heritage Project</b> . . . . .	63
Kurt Osterloh, Sanjeevareddy Kolkoori, Amélie Nusser, Andreas Schwabe, Thomas Bücherl <b>Neutron Computed Tomography for Concepts in Decontaminating Biocidally Treated Wooden Artefacts</b> . . . . .	71
Sasiphan Khaweerat, Wichian Ratanatongchai, Sarinrat Wonglee, Roppon Picha, Jiraporn Promping, Kampanart Silva, Thiansin Liamswan <b>Current Status of Neutron Radiography in Thailand</b> . . . . .	79
Yoshiaki Kiyonagi, Yoshinori Shiota, Naohiko Ayukawa, Koichi Kino, Tomoya Sato, Hirotaka Sato, Hiroyuki Hasemi, Takashi Kamiyama, Shoji Uno, Francesco Grazzi, Antonella Scherillo, Anton S. Tremsin <b>Application of a Pulsed Neutron Transmission Method to a Cultural Heritage Study</b> . . . . .	85
Andrea Denker, Claudia Laurenze-Landsberg <b>Neutron Autoradiography: the Technique</b> . . . . .	93
Claudia Laurenze-Landsberg <b>The Examination of Paintings by Rembrandt with Neutron Autoradiography and a Comparison of Neutron Autoradiography with Scanning Macro-XRF</b> . . . . .	99
Petra Kudejova, Zsolt Revay, Krzysztof Kleszcz, Stefan Söllradl, Ralph Schulze <b>High-flux Prompt Gamma Activation Analysis Based Techniques for Non-destructive Elemental Analysis of Cultural Heritage Objects</b> . . . . .	115
Xiaosong Li, Christoph Lierse von Gostomski, Martin Mach <b>Determination of Characteristic Trace Elements in a Middle Age Bronze Door of the Augsburg Cathedral by Using Neutron Activation Analysis (NAA)</b> . . . . .	125
Richard A. Livingston <b>Feasibility Study for Detecting the Lost Leonardo Mural by Prompt Gamma Neutron Activation</b> . . . . .	131
Jože Rant, Alenka Miškec, Radojko Jačimović <b>Inspection of the Roman Treasure Find by Neutron-, Gamma- and X-Ray Radiography and I-NAA</b> . . . . .	137
Ursel Wagner, Rupert Gebhard, Izumi Shimada, Friedrich E. Wagner <b>Neutron Activation Analysis of Archaeological Ceramics at the Munich Research Reactor (FRM)</b> . . . . .	145
<b>Autorinnen und Autoren</b> . . . . .	151

ISSN 1866-7007

Nachdruck, auch auszugsweise, nur mit Genehmigung des Verlages

© 2017 Verlag des

Römisch-Germanischen Zentralmuseums  
Redaktion, Layout und Satz: Manfred Albert, Christian Eckmann,  
Reinhard Köster, RGZM, Martina Sensburg (Andernach),  
Burkhard Schillinger (TU München – FRM II)  
Umschlaggestaltung: Reinhard Köster, RGZM

Herstellung: Strauss GmbH, Mörlenbach  
Printed in Germany