

I N D I C E

E. CHIANCONE – <i>Welcome address</i>	Pag. 5
V. AQUILANTI – <i>The Astrochemical Observatory: Chemistry in the sky</i>	» 7
A. CIAVARDINI, F. RONDINO, A. PALADINI, M. SPERANZA, S. FORNARINI, M. SATTA, S. PICCIRILLO – <i>The effect of halogen substitution on the aromatic ring in chiral recognition between 1-aryl-1-ethanol and butan-2-ol: Resonant Two Photon Ionization Spectroscopy and Quantum Chemical Calculations</i>	» 17
W. CAMINATI, L. EVANGELISTI, A. MARIS, S. MELANDRI – <i>Accurate Rotational Spectroscopy for Astrophysical Investigations: the Chal- lenge of Chiral and Flexible Molecules and Molecular Complexes</i>	» 27
D. CATONE, N. ZEMA, T. PROSPERI, L. AVALDI, S. TURCHINI – <i>Photo- Electron Circular Dichroism: a versatile probe for chirality</i>	» 35
A. LAGANÀ, F. PIRANI, N. FAGINAS LAGO, G. VITILLARO, E. GARCIA – <i>Process driven potentials for Open Molecular Science Cloud com- putational services: the nitrogen case study</i>	» 47
S. FALCINELLI – <i>The double photoionization of propylene oxide</i>	» 61
S. ABBATE, G. MAZZEO, G. LONGHI – <i>NIR-absorption and NIR-VCD spectroscopy can teach us a lot about OH bonds</i>	» 73
F. PIRANI, D. ASCENZI – <i>Stereodynamical effects by anisotropic intermol- ecular forces</i>	» 81
P. CASAVECCHIA, A. CARACCIOLÒ, G. VANUZZO, N. BALUCANI – <i>Crossed molecular beam experiments on bimolecular reactions of relevance in astrochemistry: the case of atomic oxygen reactions with small unsaturated hydrocarbons</i>	» 91

M. SATTA, M.H.D. VAN DER WIEL, D.A. NAYLOR, G. MAKIWA, A. ABERGEL – <i>HF molecule as a tracer of column density in interstellar diffuse gas: the adsorption on dust grain surfaces</i>	Pag. 99
A. LOMBARDI, F. PALAZZETTI, V. AQUILANTI, K.-C. LIN, D.-C. CHE, M. NAKAMURA, T. KASAI – <i>Excited CO Formation in Interstellar Molecular Clouds: Methyl Formate Photodissociation by Ultraviolet Radiation</i>	» 107
N.D. COUTINHO, Y.S. SILVA, D. DE FAZIO, S. CAVALLI, V.H. CARVALHO-SILVA, V. AQUILANTI – <i>Chemical Kinetics under Extreme Conditions: Exact, Phenomenological and First-Principles Computational Approaches</i>	» 115
C. CECCHI-PESTELLINI – <i>Chiral Selection in Space: Role of Cosmic Dust</i>	» 131
S. LONGO – <i>The State-to-state kinetics: from a Sumerian prototype to astrobiology.</i>	» 141
A.F. ALBERNAZ, V. AQUILANTI, P.R.P. BARRETO, A.C.P. BITENCOURT, C. CAGLIOTI, R.F. DOS SANTOS, A. LOMBARDI, G.S. MACIEL, F. PALAZZETTI, M. RAGNI – <i>Mapping the configurations of four-bar mechanisms as chirality change processes: a clue in evolutionary science.</i>	» 151
V. AQUILANTI, P. CASAVECCHIA, D.-C. CHE, S. FALCINELLI, K.-C. LIN, A. LOMBARDI, T. KASAI, M. NAKAMURA, F. PALAZZETTI, F. PIRANI, P.-Y. TSAI – <i>The ORCHID project: a search for the Origin of Chiral Discrimination</i>	» 163
PROGRAM OF THE SYMPOSIUM	» 175