

- P117 Characterization of Stearic Acid by Infrared and Raman Spectroscopy**
Eduardo Genner Ferreira de Almeida, Manoel Roberval Pimentel Santos (Universidade Federal do Oeste do Pará - UFOPA), Francisco Ferreira de Sousa
- P118 SYNTHESIS AND CHARACTERIZATION OF METALLIC NUCLEAR FUELS**
Reginaldo Barco (Universidade Estadual de Maringá-Pr), Andrea Paesano Jr., Fabio Rogerio Longen, Luciano Pagano Jr.
- P119 Raman Spectroscopy in Crystals of β -Carotene under High Hydrostatic Pressure condition**
Kleber José Rosario da Silva (Universidade Federal do Pará), Luiz Fernando Lobato da Silva, Silvio Domingos Silva Santos, Waldeci Paraguassu Feio, Sanclayton G. C. Moreira, Paulo de Tarso Cavalcante Freire
- P120 Synthesis and characterization of nanosized $LaFeO_3 - NaTaO_3$ powder system and their photocatalytic properties**
André Luiz Martinez (Faculdade de Ciências Exatas e Tecnologia - UFGD), Valmor Roberto Mastelaro
- P121 STRUCTURE DETERMINATION OF LASSBIO-129: A LEAD-COMPOUND OF THE N-ACYLHYDRAZONE CLASS**
F.N. Costa, T.F. Silva, E.J. Barreiro, L.M. Lima, F.F. Ferreira, D. Braz, I.T.S. Bastos (Instituto de Física, UERJ), L. Kuplich, M. V. Colaço, R.C. Barroso
- P122 Synthesis and Structural properties of the $YMnO_3$ doped with Cr**
P.J.S. Santana, N. O. Moreno, Petrucio Barrozo (Departamento de Física - UFS, 49100-000, São Cristóvão-SE, Brasil), J. Albino Aguiar
- P123 Anisotropic mechanical properties observed in ZnO Single crystals by nanoindentation**
Elizandra M. Silva (PUC-Rio - RJ - Brasil, Arizona State University - AZ -USA), Paula G. Caldas, Reidi Juday, Jingyi Huang, Rodrigo Prioli, Fernando Ponce
- P124 Structural phase transitions on Iridium perovskites Ba_2MIrO_6 (M = Bi, La)**
Aldo Matthaeus Cutrim Gomes (UFMA - MA - Brazil), Edsom Firmino Viana de Carvalho
- P125 Analysis of the isothermal crystallization of hematite nanoparticles by X-ray diffraction**
Ezequiel Borges Melo (Universidade Federal do Maranhão), Alan Silva de Menezes
- P126 Crystallization and Structural Study of Xanthones**
Cinthia Antunes Corrêa, Valéria de Oliveira, José Ricardo Sabino (Universidade Federal de Goiás)
- P127 Thermal analysis and phase diagram of the system $Li_2W_2O_7 - La_2W_2O_9$: melting behavior of $LiLa(WO_4)_2$**
Jair Ricardo de Moraes, Sonia Licia Baldochi (Instituto de Pesquisas Energéticas e Nucleares -IPEN-CNEN/SP), Detlef Klimm

MAT - GLASS AND NATURAL MATERIALS

Chair: Marcio Luis Ferreira Nascimento

- P128 Study of the spectroscopic properties of erbium doped borosilicate glass and silver nanoparticles**
Lucélia Celes (University of Brasilia, Physics Institute), Sebastião William, Zélia Maria da Costa, Delvany de Castro, Victor Oliveira, Luiz Carlos Barbosa, Walter Pontuschka, Julia Giehl
- P129 Optical and Thermo-optical Properties of Bismuth-Tellurite Glasses**
Fábio Alencar dos Santos (Laboratório de Materiais Cerâmicos Avançados, Universidade Federal da Grande Dourados, Dourados, MS, Brazil), Marcio S. Figueiredo, João Carlos Silos Moraes, Sandro M. Lima, Luis Humberto C. Andrade