


CONTENTS



**Proceedings of the Conference on 75 years of Nuclear Fission:
Present Status and Future Perspectives (Fission75) – Part II**

Fission fragment mass distributions via prompt γ -ray spectroscopy.....	379
..... <i>L S Damu, D C Biswas, B K Nayak and R K Choudhury</i>	
Spectroscopy of heavy fissionable nuclei.....	385
..... <i>S K Tandel</i>	
Spectroscopy of fission fragments using prompt-delayed coincidence technique ...	395
..... <i>R Polit and S Biswas</i>	
^{136}Sn and three-body forces.....	403
..... <i>M Saha Sarkar and S Sarkar</i>	
Fission approach to cluster radioactivity.....	415
..... <i>D N Poenaru and R A Gherghescu</i>	
Ternary fission.....	423
..... <i>M Balasubramanian, K R Vijayaraghavan and C Karthikraj</i>	
Cluster decay analysis and related structure effects of fissionable heavy and superheavy nuclei.....	431
..... <i>Manoj K Sharma and Gurbinder Kaur</i>	
Spontaneous fission of superheavy nuclei.....	439
..... <i>R A Gherghescu and D N Poenaru</i>	
Superheavy elements and decay properties.....	447
..... <i>K P Sanjosh</i>	
Discoveries of isotopes by fission.....	457
..... <i>M Thoennesen</i>	
The EXILL campaign.....	467
..... <i>G de France, A Blanc, F Drouet,</i> <i>M Jentschel, U Köster, P Mutti, J M Régis, G Simpson,</i> <i>T Soldner, O Stezowski, S Leoni, W Urban and A Vancraeynest</i>	
Photofission experiments at the ELI-NP facility.....	473
..... <i>Dimiter L Balabanski and the ELI-NP Science Team</i>	

(Continued on inside back cover)

Indexed in CURRENT CONTENTS ISSN 0304-4289

Edited and published by R Rameswamy

for the Indian Academy of Sciences, Bengaluru 560 080

Printed at Tholasi Prints India Pvt. Ltd., Bengaluru

Registered with Registrar of Newspapers in India, Vide Regn No. 24935/73

Regn. No. KRNA/BGE/337/2015-2017

Licensed to Post without prepayment No. 49

Posted at Bengaluru PSO, Mysore Road, Bengaluru 560026 16/9/2015

Detector instrumentation for nuclear fission studies	<i>Akhil Jhingran</i>	483
Nuclear fission as a tool to contrast the contraband of special nuclear material	<i>Viesti Giuseppe, Cester Davide, Nebbia Giancarlo, Stevanato Luca</i>	497
..... <i>Neri Francesco, Petrucci Stefano, Selmi Simone and Tintori Carlo</i>		
ANURIB – Advanced National facility for Unstable and Rare Ion Beams	<i>Arup Bandyopadhyay, V Naik, S Dechoudhury, M Mondal</i>	505
..... <i>and A Chakraborti</i>		
Nuclear transmutation strategies for management of long lived fission products	<i>S Kailas, M Hemalatha and A Sexena</i>	517
Fast reactor programme in India	<i>P Chellapanai, P R Vasudeva Rao</i>	525
..... <i>and Prabhat Kumar</i>		
Conceptual design of Indian molten salt breeder reactor	<i>P K Vijayan,</i>	539
..... <i>A Basak, I V Dulera, K K Vaze, S Basu and R K Sinha</i>		
Summary: 75 years of nuclear fission – present status and perspectives	<i>S Kailas</i>	555
List of Participants		561