



EXTATIC Seminar on Radiobiology

Institute of Nuclear Physics Polish Academy of Sciences,

October 8, 2014 Cracow, Poland

Participants

J.Czapla-Masztafiak, WM.Kwiatek, J. Lekki, A.Panek, Z.Stachura, K.Tkocz, A.Wiecheć -
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L. Juha, L. Vysin - Institute of Physics Czech Academy of Sciences, Prague

D. Adjei, M. Ayele, H.Fiedorowicz, P. Wachulak - Institute of Optoelectronics,
Military University of Technology, Warsaw

Programme

9.00 Welcome

W.M. Kwiatek - Introduction

J.Lekki – IFJ microprobes for radiobiology

A.Panek – Detection of radiation- induced DNA damage in human lymphocytes

A.Wiecheć – Radiation induced DNA double strand breaks in cancer cells.

J.Czapla-Masztafiak – Investigating radiation damage in biological samples using
spectroscopic methods

L. Juha - Responses of (bio)molecular solids to single sub-nanosecond soft x-ray
pulses delivered from the high-power laser-driven plasma source

L. Vyšín - Damage to dry plasmid DNA induced by nanosecond XUV-laser pulses

P. Wachulak - Gas puff target soft X-ray (SXR) sources and applications at MUT

D. Adjei - Development and application of a compact laser-produced plasma
soft X-ray source for radiobiology experiments.

13.00 Discussion & Conclusions

