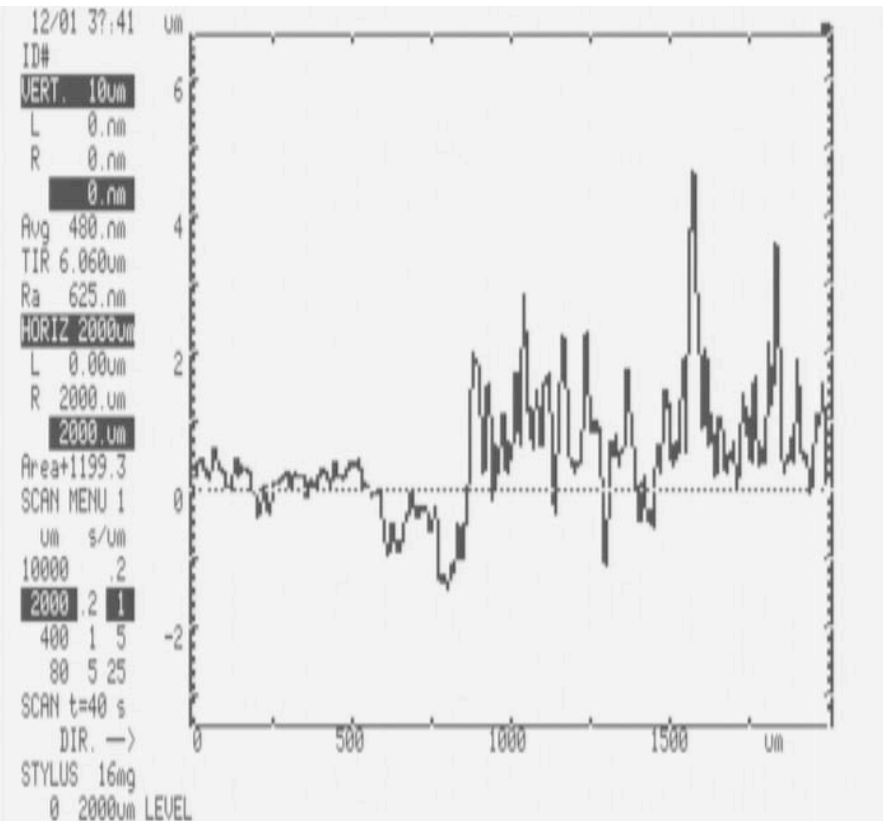
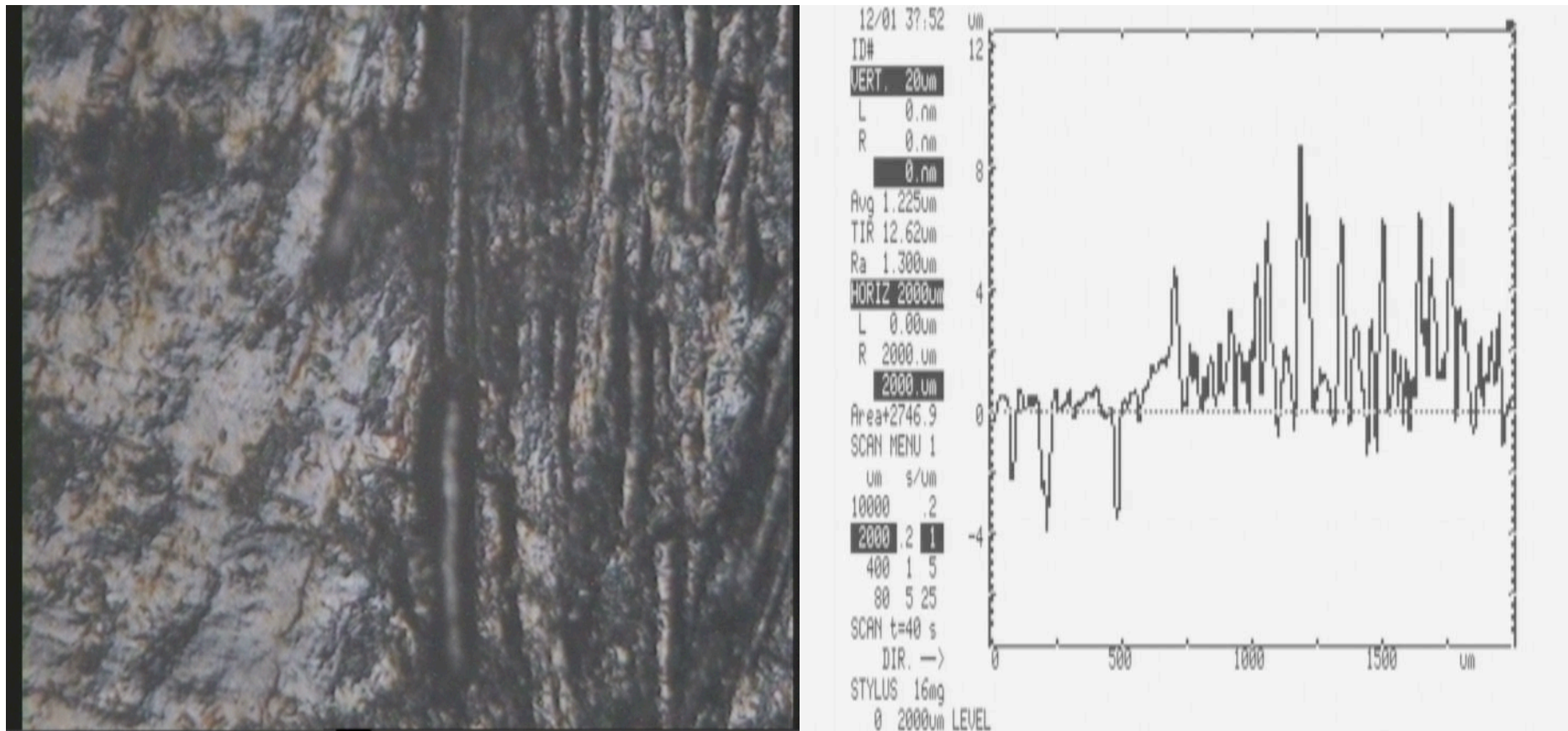


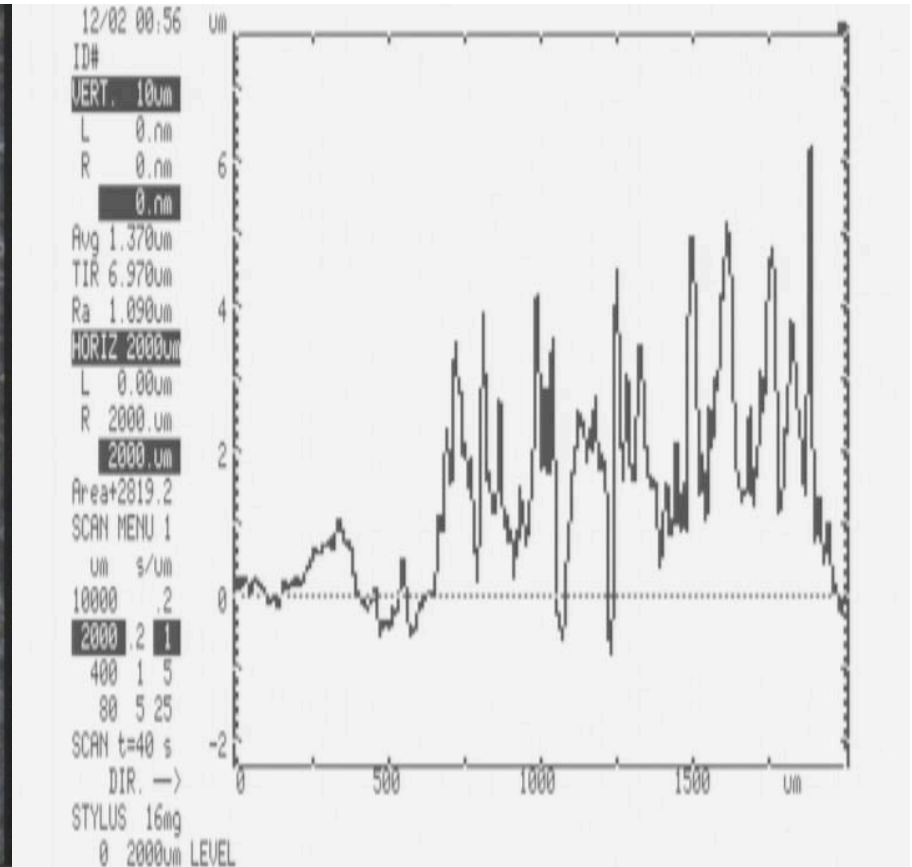
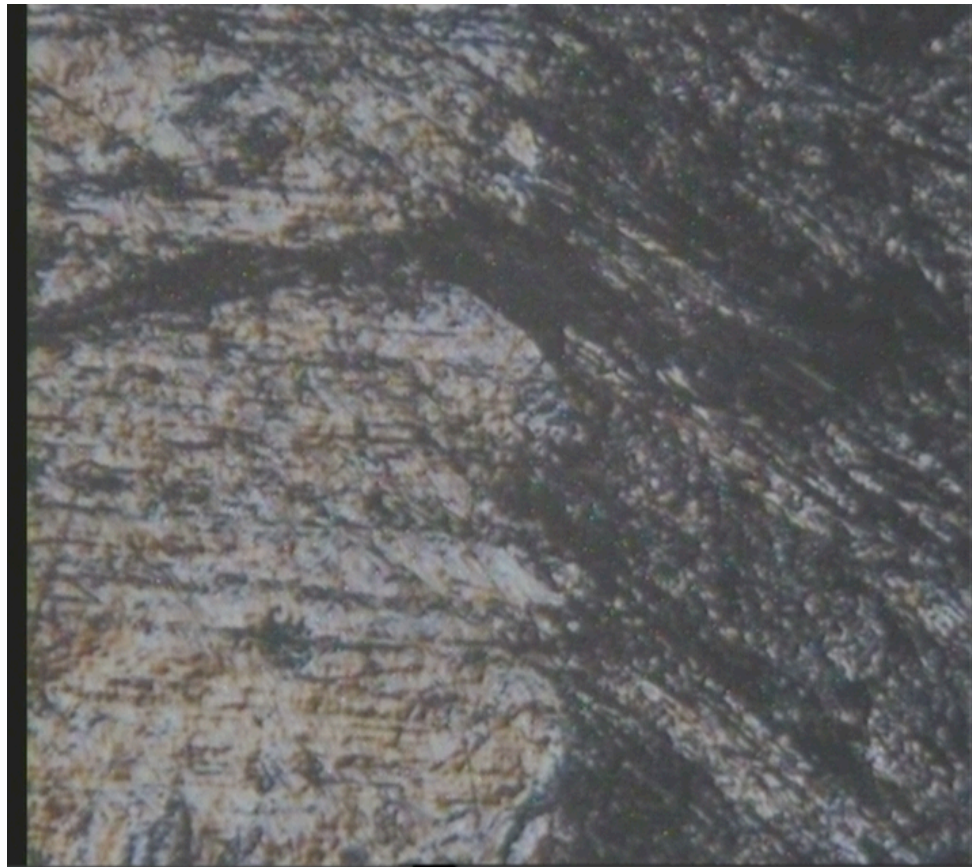
Measurements of Radiation Induced Deformation in Graphite Composite Material REC Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 3×10^{17} p/cm²



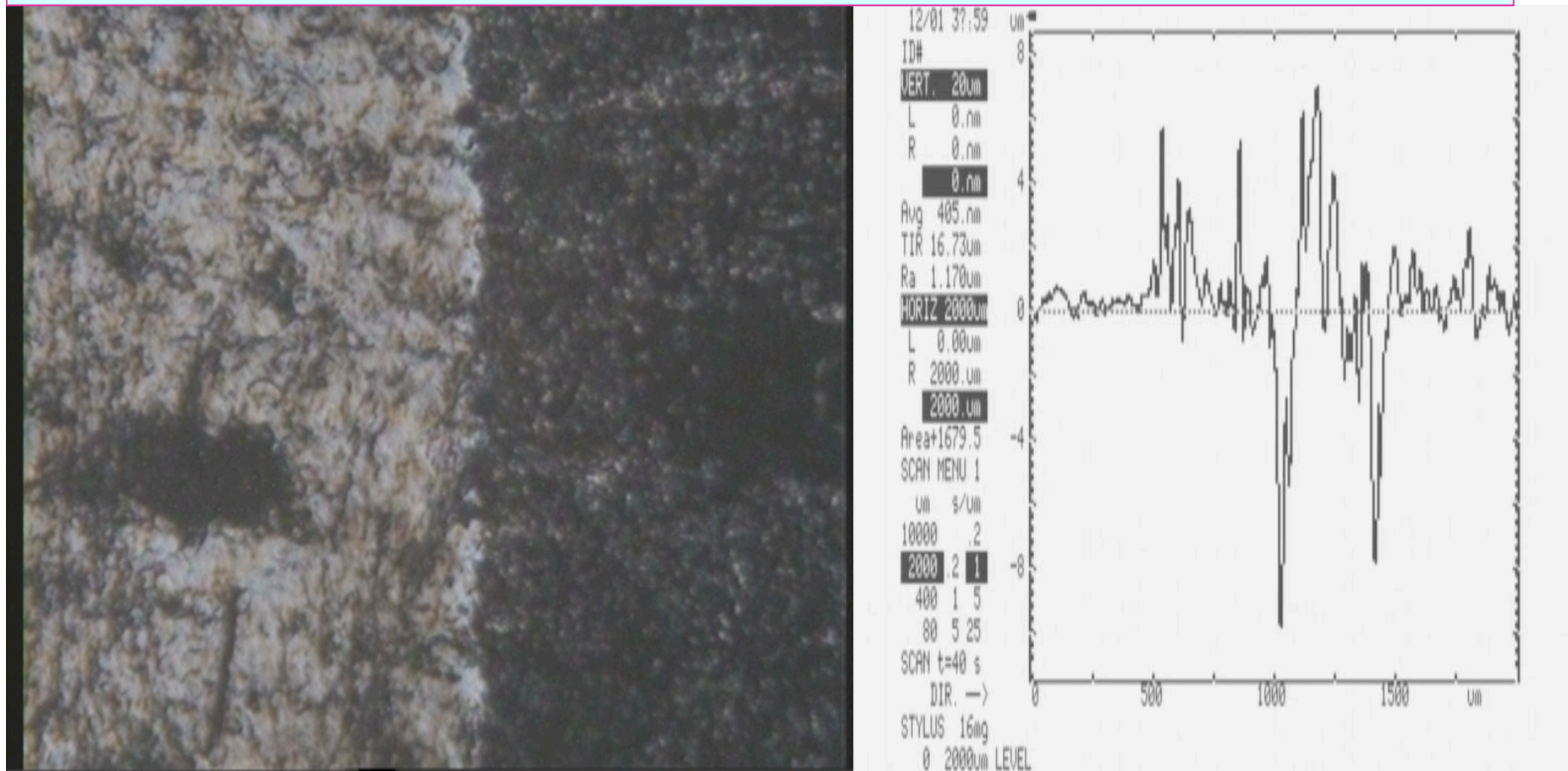
Measurements of Radiation Induced Deformation in Graphite Composite Material REC Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 1×10^{18} p/cm²



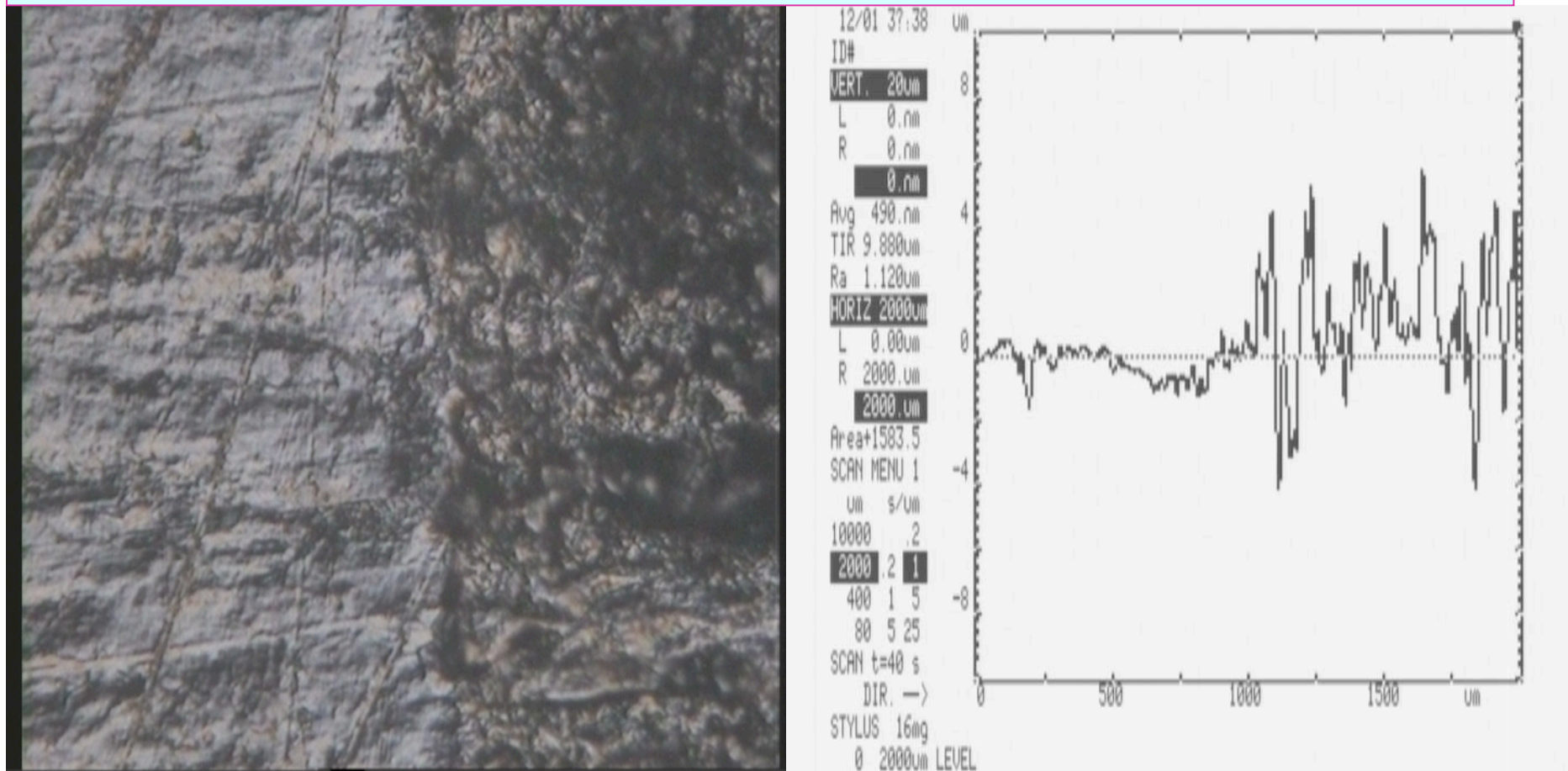
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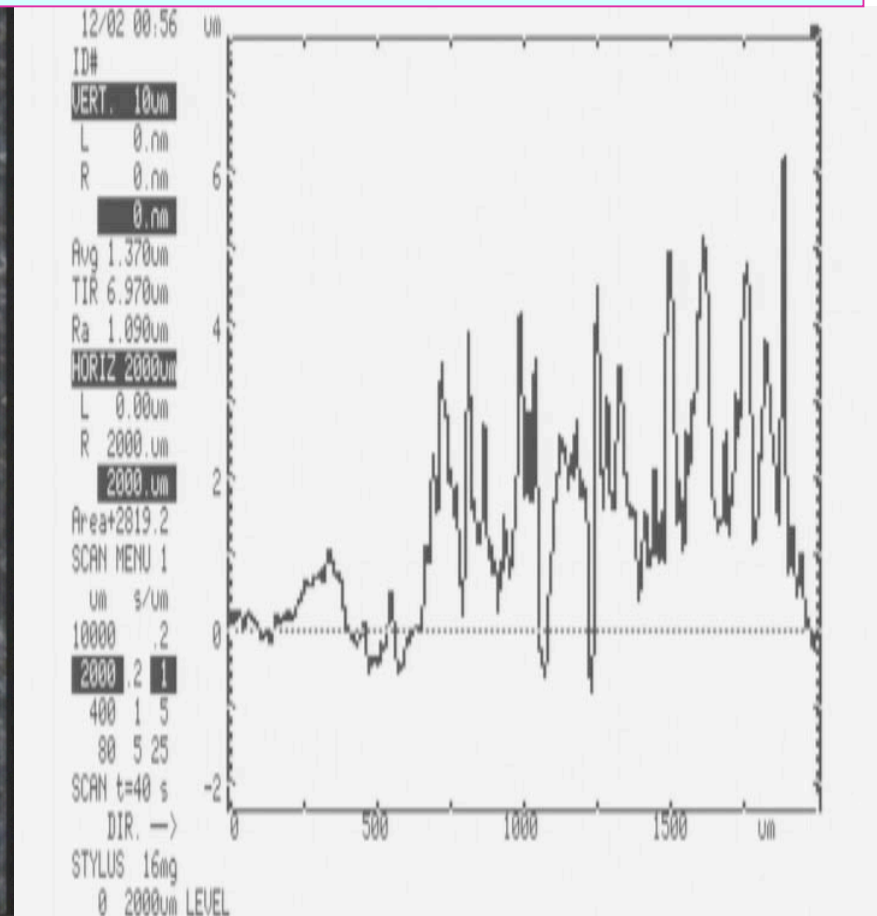
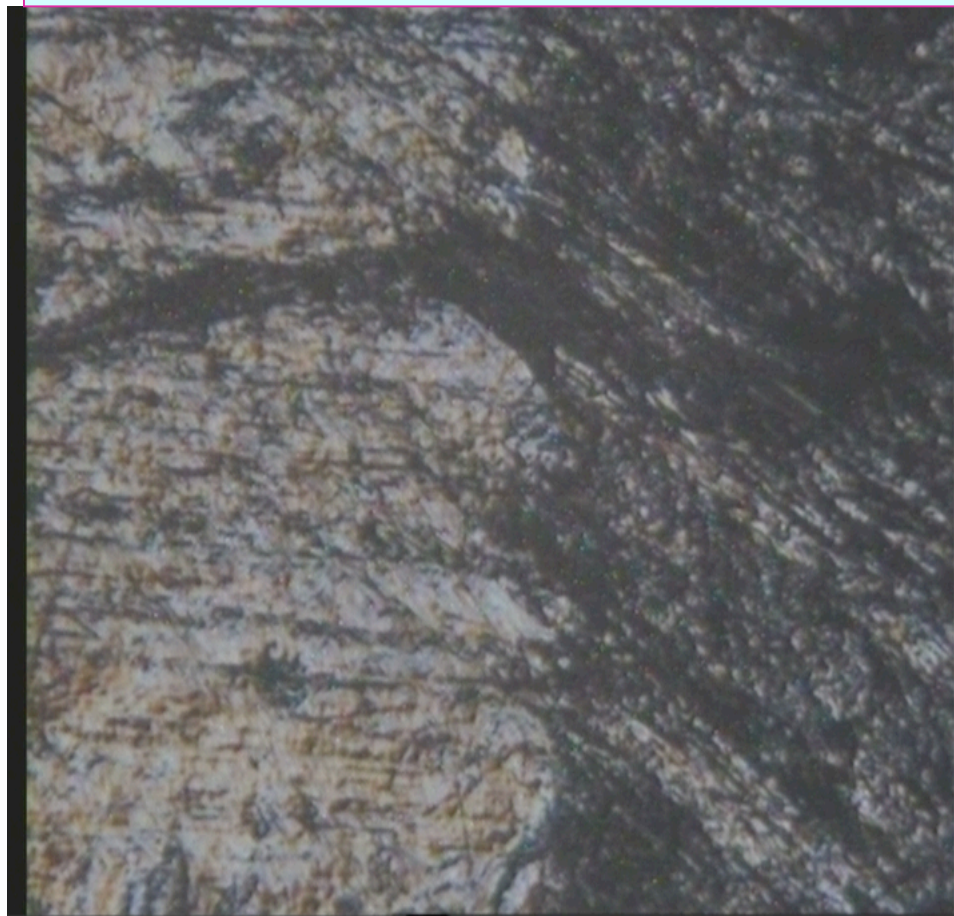
Measurements of Radiation Induced Deformation in Graphite Composite Material AC Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 3×10^{17} p/cm²



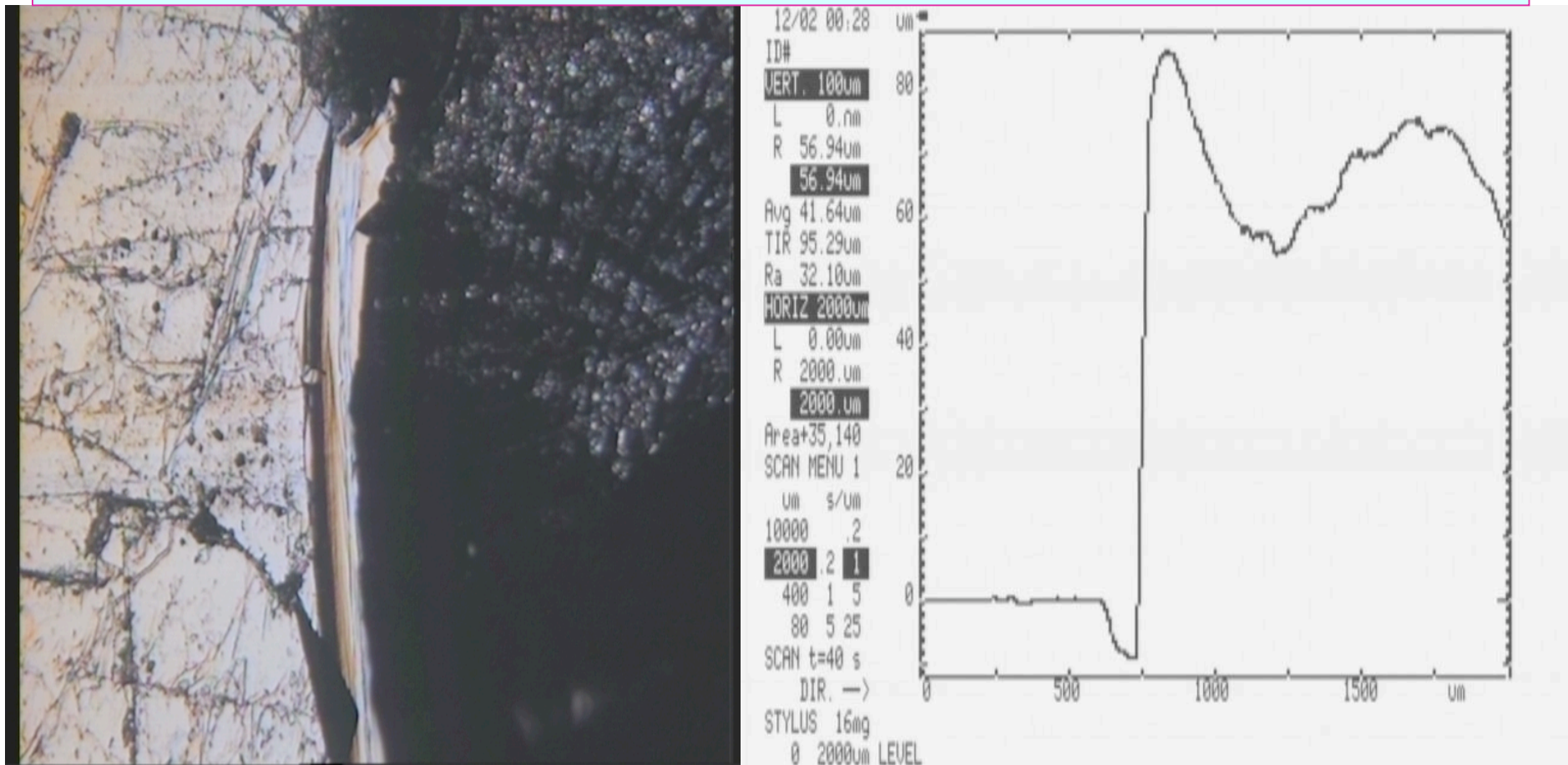
Measurements of Radiation Induced Deformation in Graphite Composite Material AC Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 1×10^{18} p/cm²



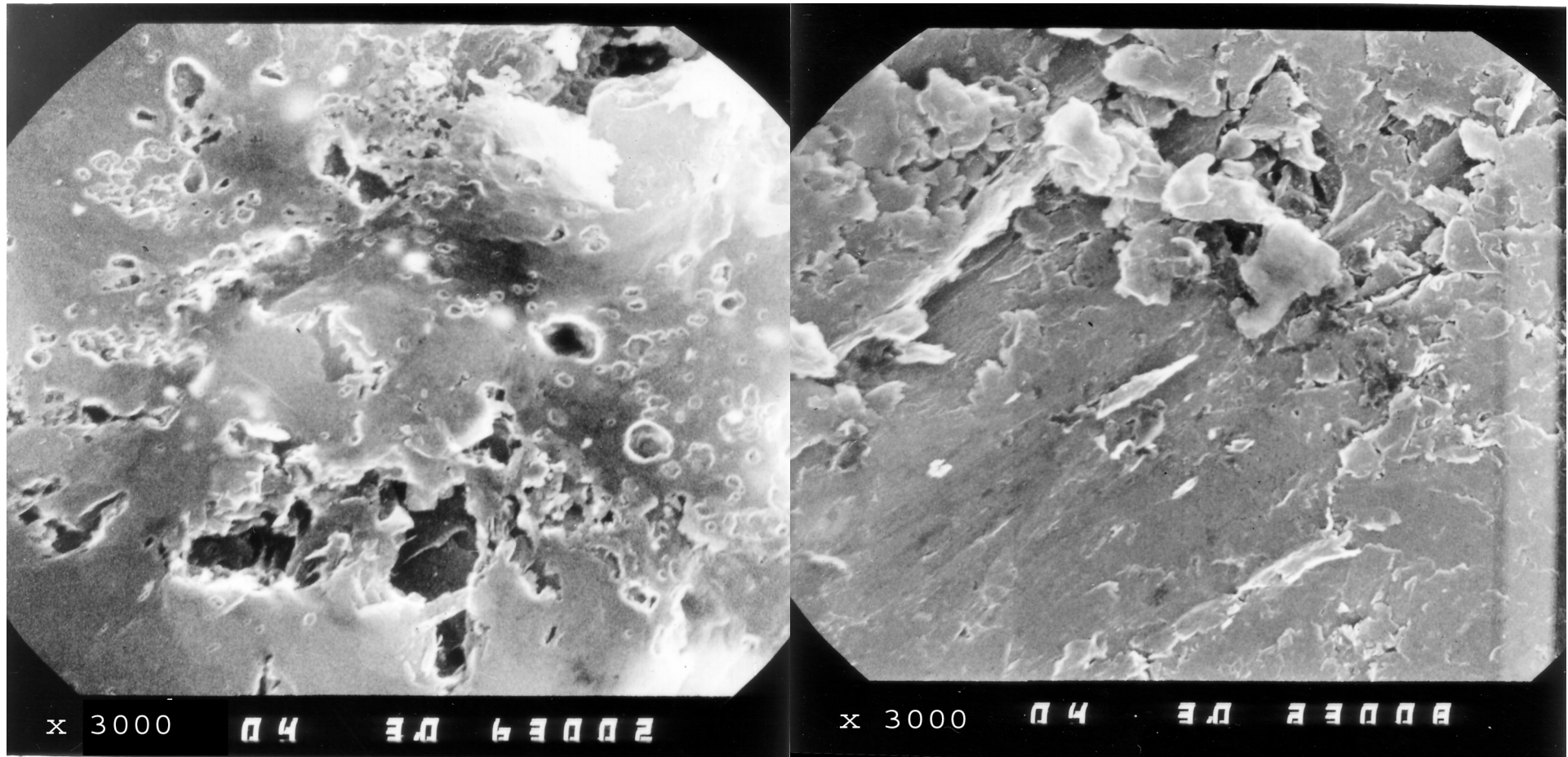
Measurements of Radiation Induced Deformation in Graphite Composite Material R4SSO Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 1×10^{17} p/cm²



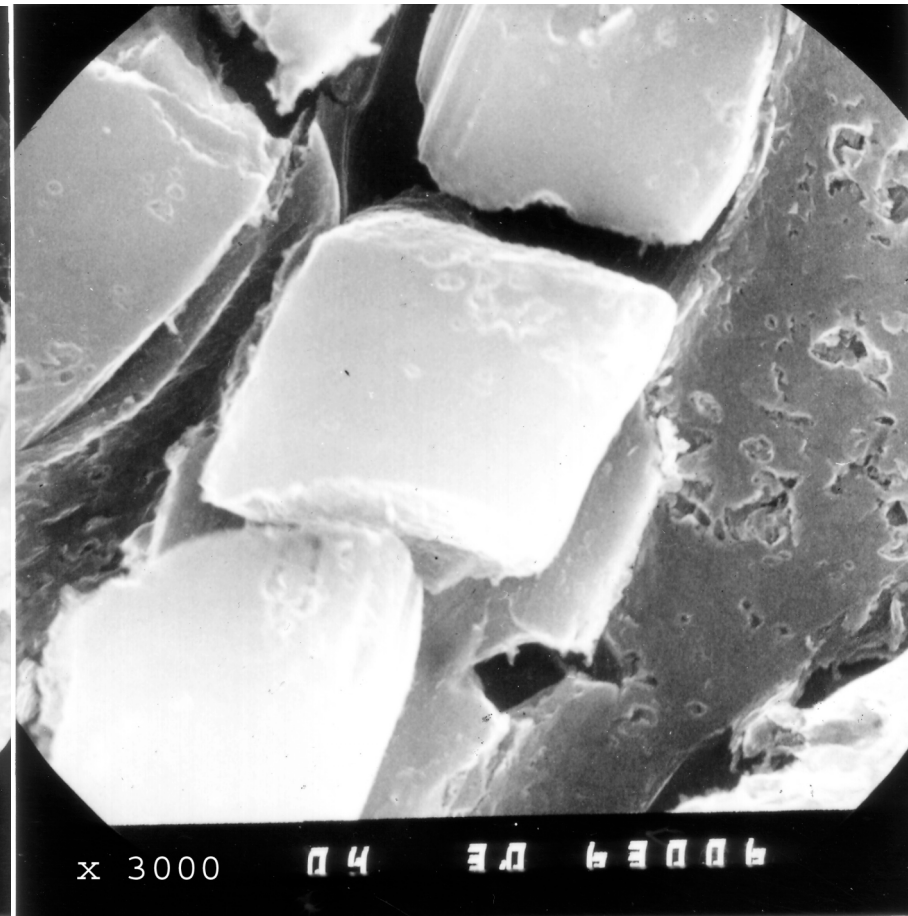
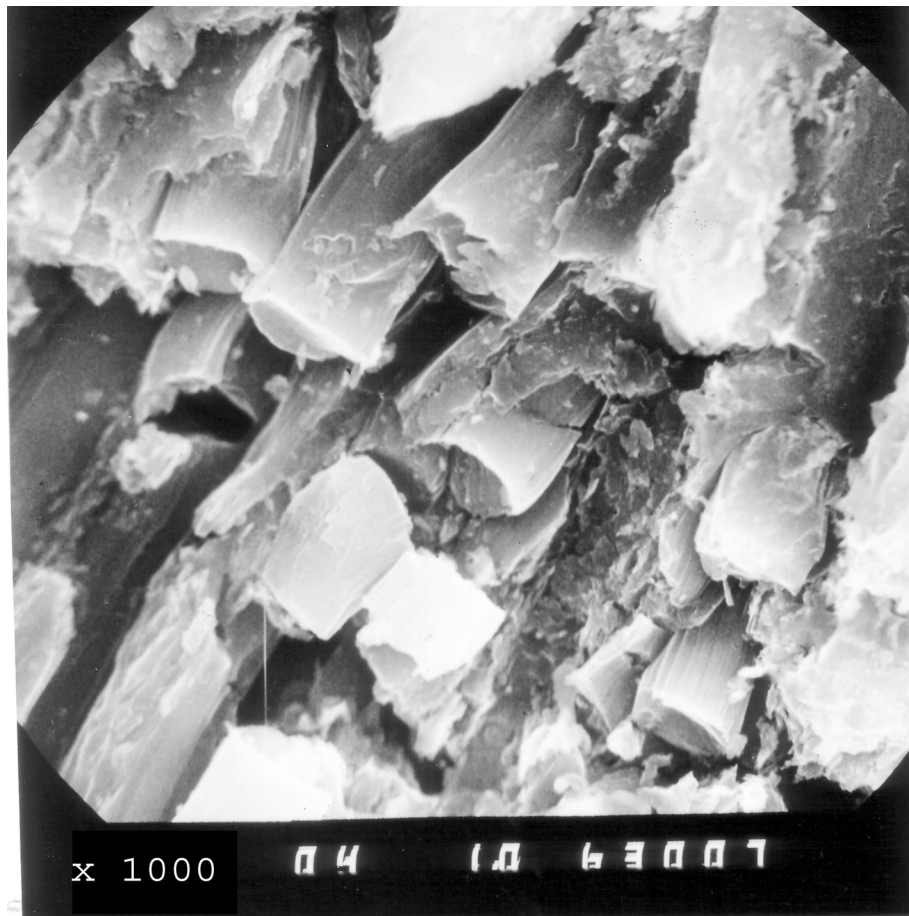
Measurements of Radiation Induced Deformation in Pyro -Graphite Material Irradiated by Carbon Ions with the Energy 5 MeV at Irradiation Dose: 1×10^{17} p/cm²



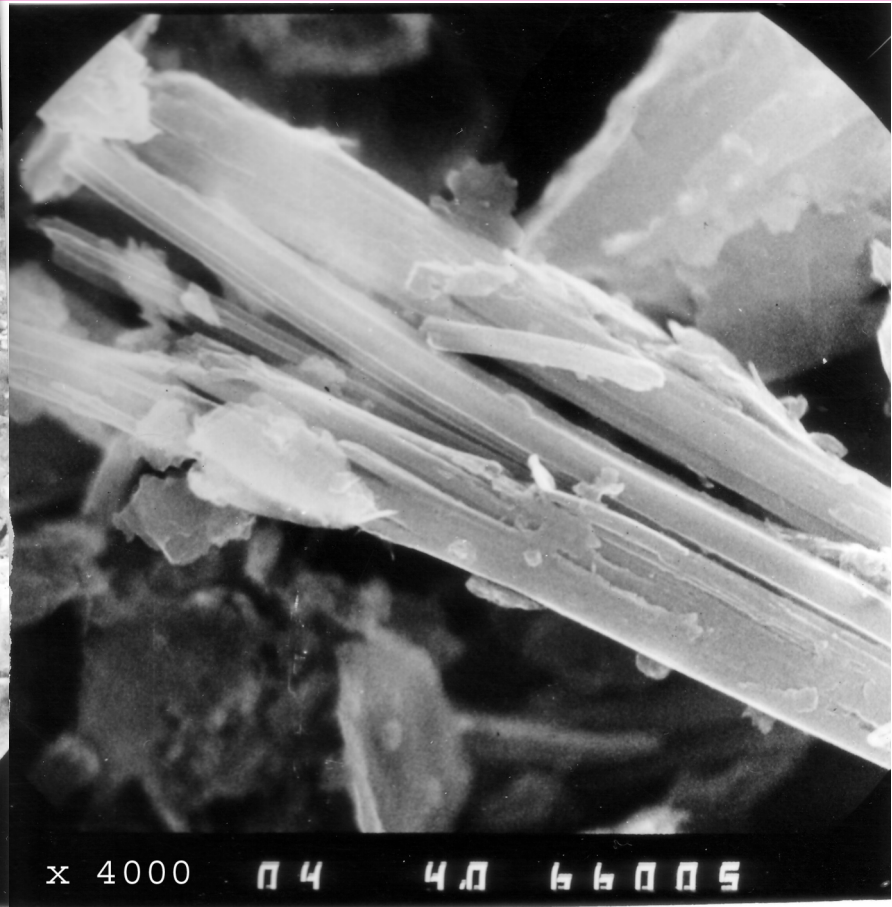
**Analysis of Radiation Induced Erosion in Graphite Composite
Material REC Irradiated by Carbon Ions with the Energy 5
MeV at Irradiation Dose: 1×10^{17} p/cm²**



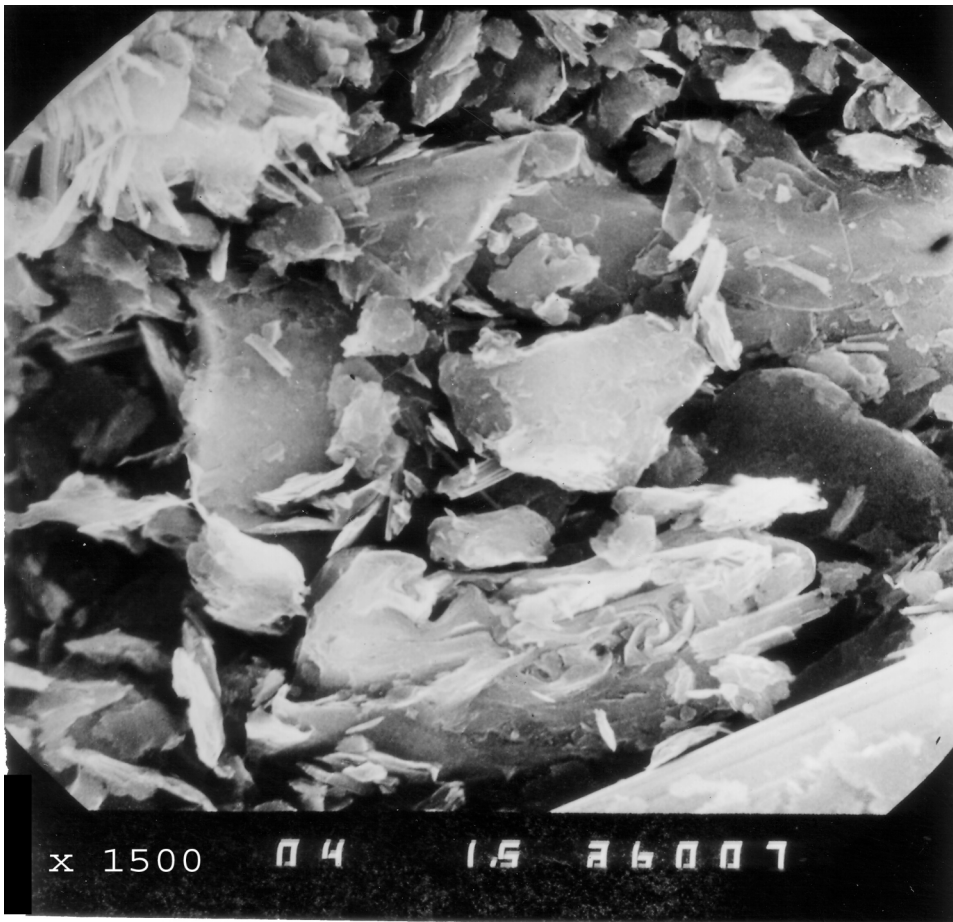
**Analysis of Radiation Induced Erosion in Graphite Composite
Material REC Irradiated by Carbon Ions with the Energy 5
MeV at Irradiation Dose: 1×10^{17} p/cm²**



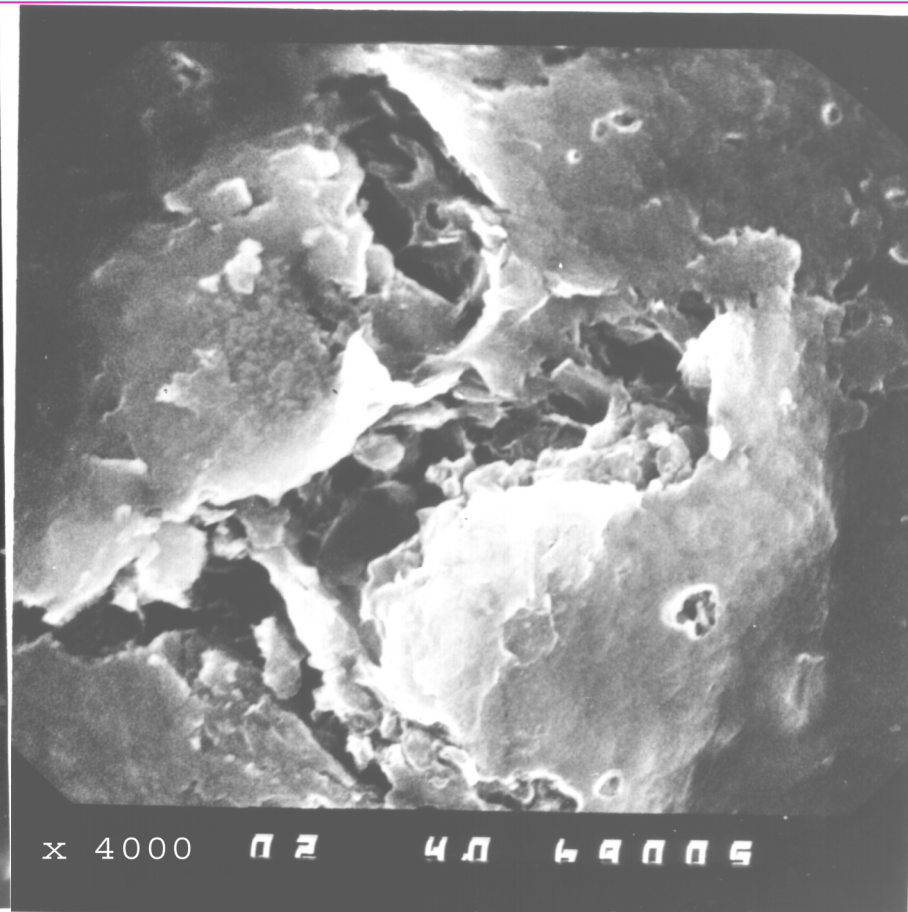
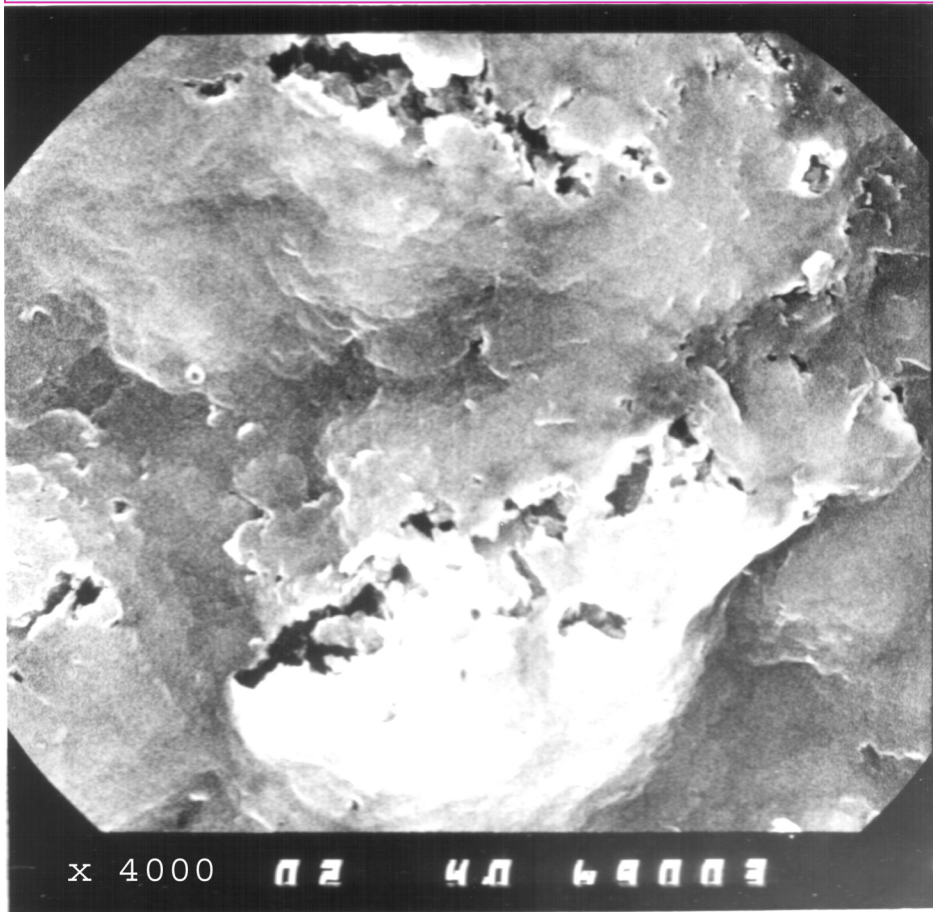
**Analysis of Radiation Induced Erosion in Graphite Composite
Material AC Irradiated by Carbon Ions with the Energy 5 MeV
at Irradiation Dose: 1×10^{17} p/cm²**



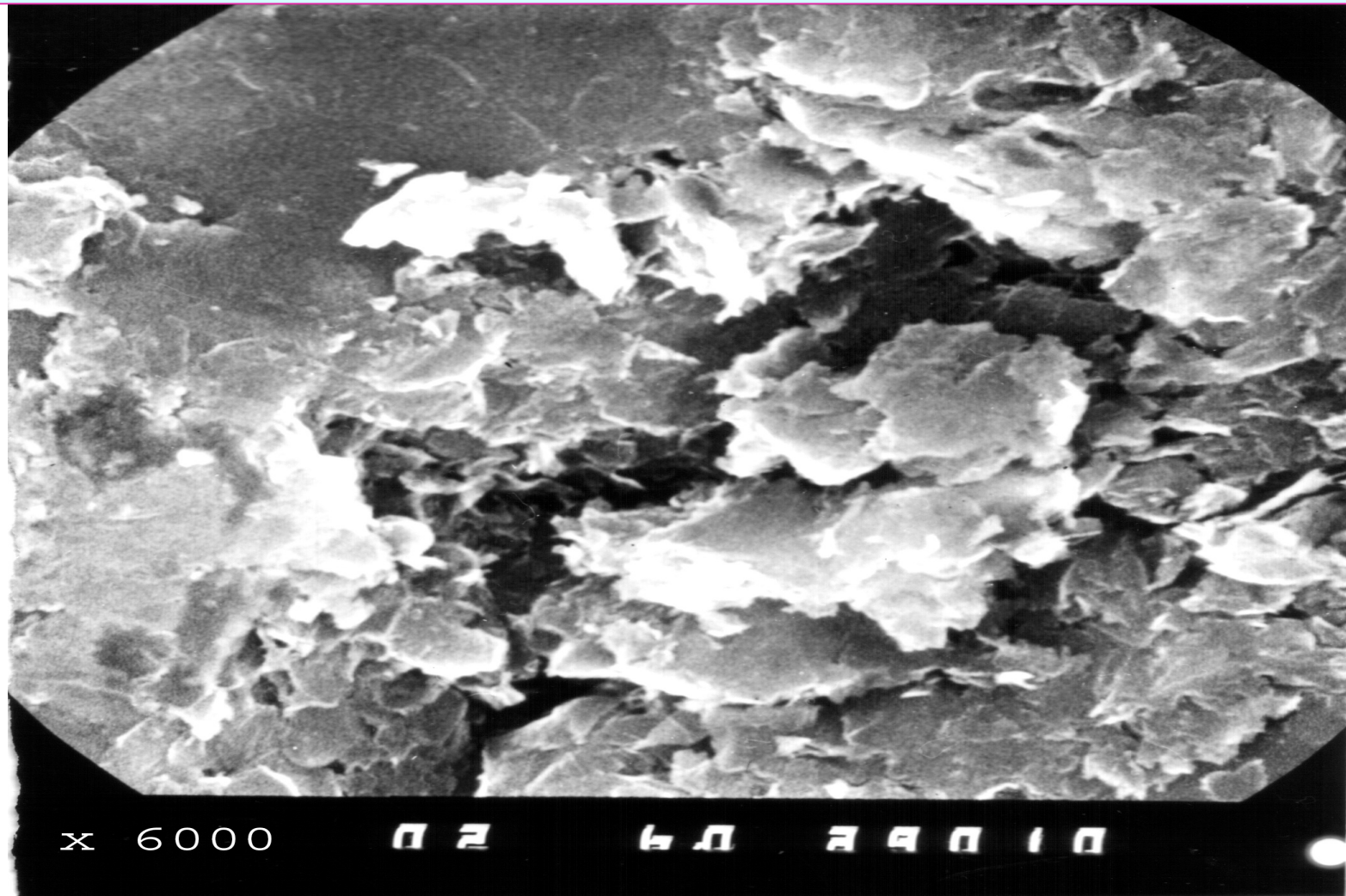
**Analysis of Radiation Induced Erosion in Graphite Composite
Material AC Irradiated by Carbon Ions with the Energy 5 MeV
at Irradiation Dose: 1×10^{17} p/cm²**



**Analysis of Radiation Induced Erosion in Graphite Composite
Material R4SSO Irradiated by Carbon Ions with
the Energy 5 MeV at Irradiation Dose: 1×10^{17} p/cm²**

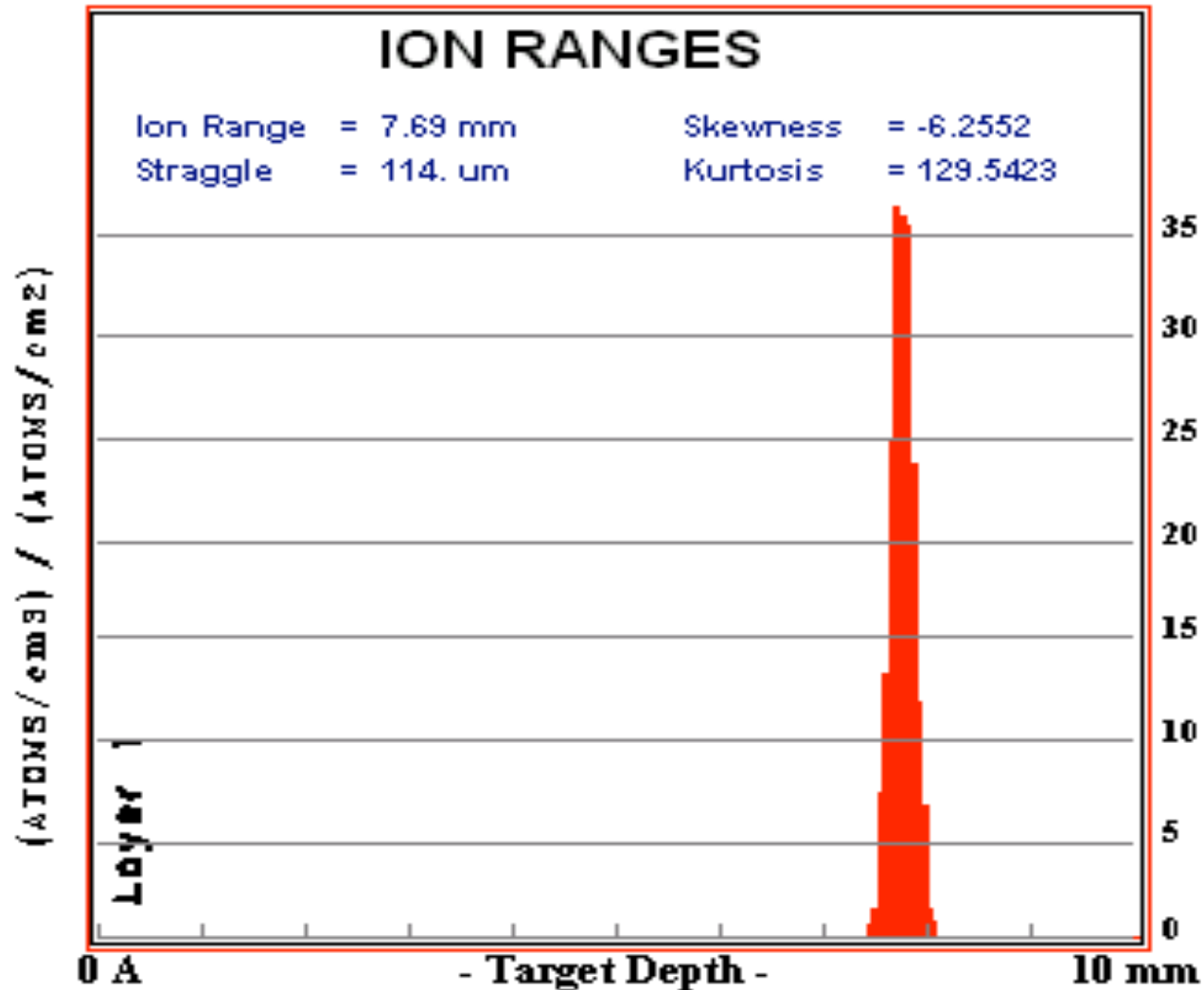


**Analysis of Radiation Induced Erosion in Graphite Composite
Material R4SSO Irradiated by Carbon Ions with
the Energy 5 MeV at Irradiation Dose: 1×10^{17} p/cm²**

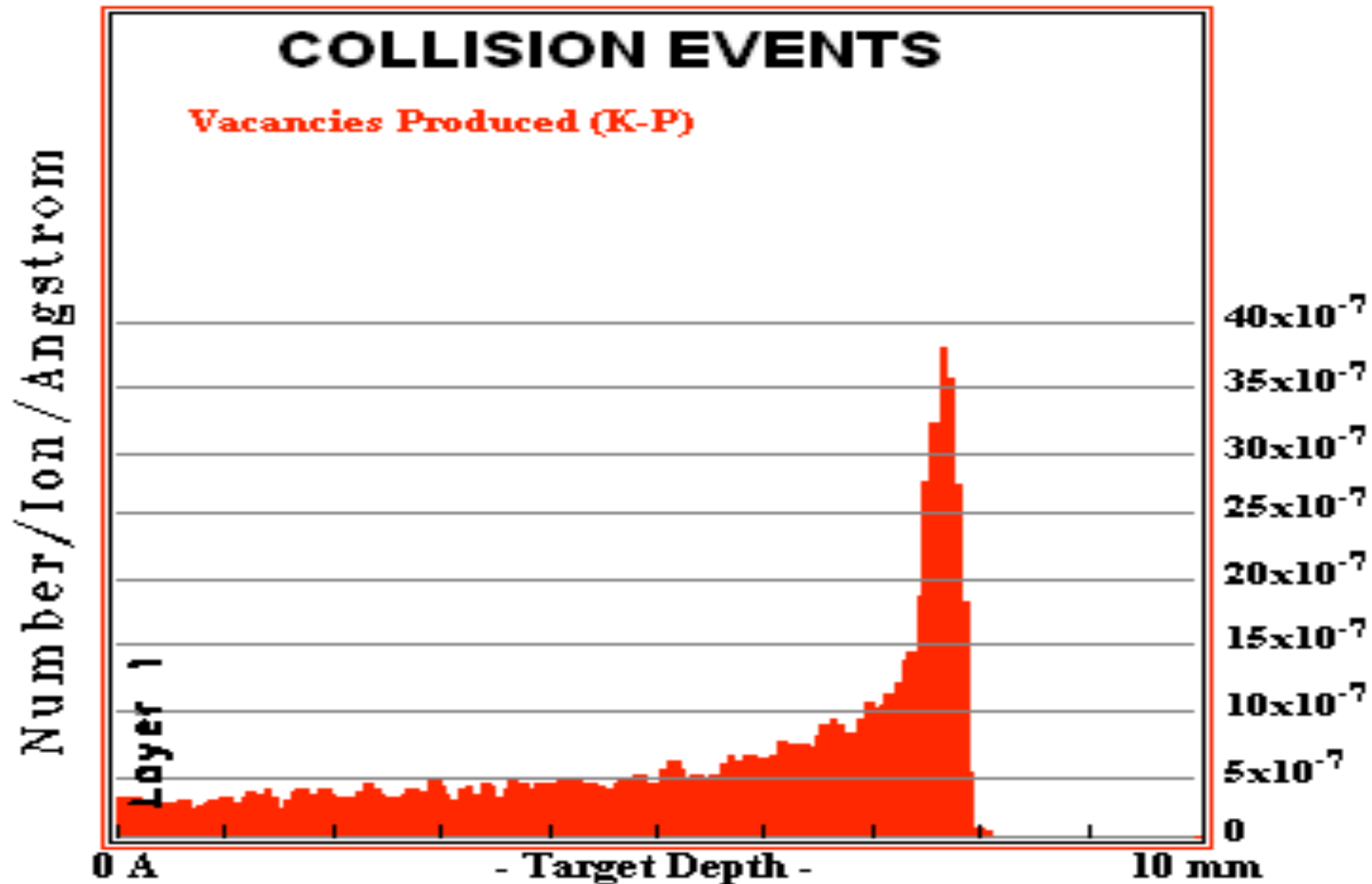


CERN, 19 February, 2007

Penetration Depth in Graphite under 35 MeV Proton Irradiation



Collision Events in Graphite under 35 MeV Proton Irradiation



Future work for investigations of proton irradiation on Graphite Collimator Materials for LHC

- **Investigations of radiation-induced deformation under proton irradiation at different doses of DPA and temperatures in irradiated graphite materials for LHC.**
- **Investigation of radiation induced erosion and microstructure change in proton irradiated graphite materials for LHC at different temperatures.**
- **Analysis of thermal expansion in proton irradiated C-C graphite materials for LHC in dependence on temperature and irradiation doses in DPA.**
- **Studies of proton irradiation effects in DPA on thermal conductivity, electrical resistivity and mechanical properties.**