

Sample Information Sheet

Sample ID: C2012,5,129,0,0 – Still at AMNH

Sample type (select one):
(4) keystone on fork

Type of analysis performed:
(1) 3D Laser Scanning Confocal Microscopy (LCSM)
(2) Synchrotron XRF

State of sample pre-analysis: Keystone on fork

State of sample post-analysis : Keystone on fork, incomplete. Prior to sample mounting for LCSM analysis a portion of the aerogel keystone broke off including the terminal particle, the aerogel fragment has not been recovered yet is believed to still be in the glass container for keystone transport.

Minerals or other phases identified:
XRF results are forthcoming (Beamtime allocation is in June 09).

Contaminant phases identified (including melted aerogel): N/A

Additional Notes:
Keystone 129 contains one type A track although incomplete. Full mapping of the remaining track with LCSM has been completed, as well as quantitative analysis (track volumes, cross sectional area, skewness). LCSM has provided high resolution (<80 nm/pxl) morphological data on entire track structures.

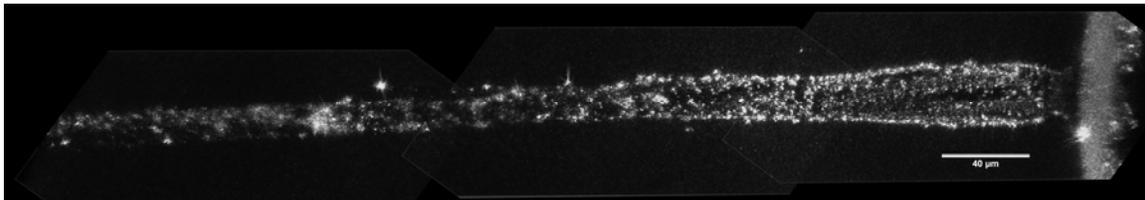


Fig 1: Greyscale LCSM projection (Cropped), Keystone #129 (12 Bit, 0.079 μ m/pxl). Brighter areas indicate higher reflectance. This track map is incomplete due to loss of terminal region.