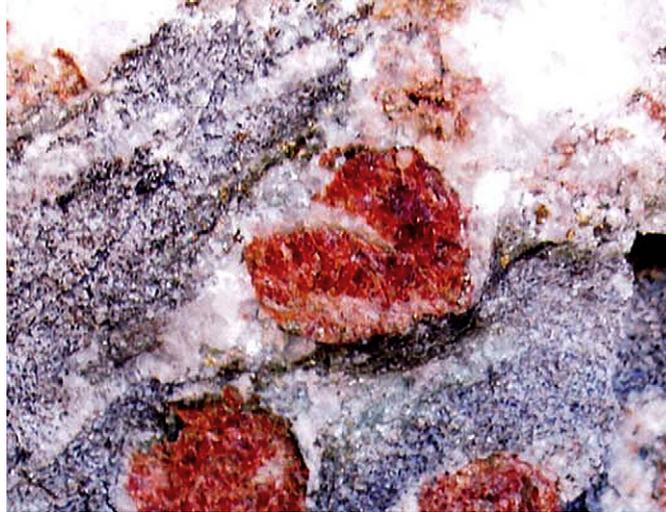




Photograph of the Month

Macroscopic 'V' pull-apart structure in garnet



Photograph Soumyajit Mukherjee. © Soumyajit Mukherjee.

A typical but macroscopic 'V' pull-apart structure as described by Hippertt (1993) developed in a single grain of garnet perpendicular to the primary brittle shear plane and parallel to slickensides in migmatic gneiss. The V-opening is curved and is filled with quartz. The top-right part of the garnet is shorter than the remainder of the mineral and a top-to-SW (top-right corner of the photograph) sense of shearing is induced from the rotation of the smaller fragment with respect to the bigger fragment (following Singh, 1999). Sample location: north of Surraithota, Higher Himalaya, Dhauliganga section, western Indian Himalaya (sample in author's collection). Width of photograph 6 cm. This is a first example of a macroscopic V pull-apart structure.

Please send comments to jsg@uni-mainz.de

References

- Hippertt JFM. 'V' pull-apart microstructures: a new shear sense indicator. *Journal of Structural Geology* 1993;15:1394–403.
- Singh K. Pull apart microstructures in feldspar from Chail Thrust Zone, Dhauladhar Range, Western Himachal Pradesh. In: Jain AK, Manickavasagam RM, editors. *Geodynamics of the NW Himalaya*. Gondwana Research Group Memoir 6; 1999. p. 117–23. Osaka.

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