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Recent Instrument Upgrades of the Triple-Axis Spectrometer VERITAS

VERITAS (HB-1A) located in the thermal beam room at HFIR, recently completed a major upgrade to rebuild the entire instrument. The instrument utilizes a double-bounce pyrolytic graphite monochromator system and a pyrolytic graphite analyzer to produce an intense, clean beam at $\lambda = 2.38 \text{ \AA}$ with low background and an excellent signal-to-noise ratio. The upgrade resulted in a $>4\times$ signal gain and enables two new capabilities on VERITAS: a new four-circle goniometer capability which has been successfully commissioned and is now available in the user program; and a small 2D detector option at the analyzer position which is under development and will become available soon. With its large Q -coverage (0.1 to 4.8 \AA^{-1}) and open sample position, VERITAS is optimized for magnetic diffraction studies supporting a wide range of complex sample environments.

Topical Area

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