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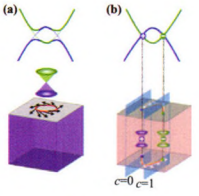

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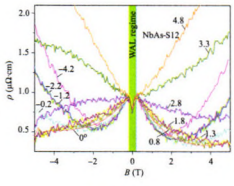

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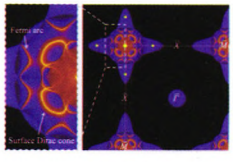

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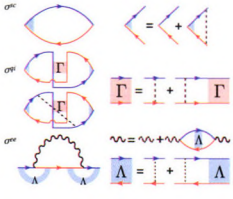

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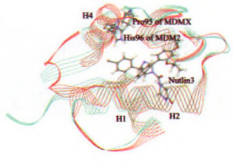

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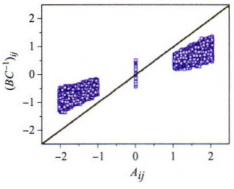
Special Focus: National Laboratory of Solid State Microstructures



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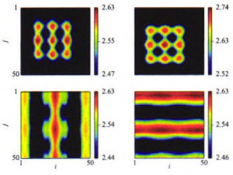

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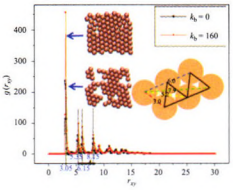

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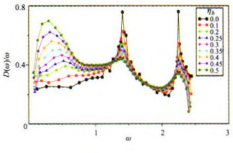

126301

Cover

The physics of huge magnetoresistance in WTe_2 requires full analysis of multiple elecctronic components. Xing-Chen Pan *et al.* combined magnetotransport and angle-resolved photoemission spectroscopy to study the electronic structures of WTe_2. By analyzing the magnetoresistance and Hall data with mobility spectrum method, the authors demonstrated perfect electron-hole balance in pristine WTe_2. Furthermore, transport experiments under ultra-high magnetic field observed a transition from parabolic magnetoresistance to linear magnetoresistance. This material is recently paid more attention as a new type-II topological Weyl semimetal candidate. For more details, please refer to the article "Carrier balance and linear magnetoresistance in type-II Weyl semimetal WTe_2" by Xing-Chen Pan, et al., *Front. Phys.* 12(3), 127203 (2017). [Photo credits: Xing-Chen Pan & Fengqi Song, Nanjing University, China]

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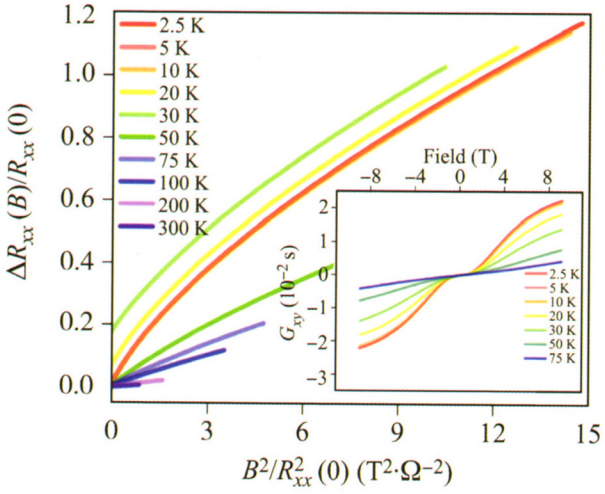

Kohler plots of the magnetic resistance curves and Hall conductance [$G_{xy}=R_{xy}/(R_{xx}^2+R_{xy}^2)$] (inset) at different temperatures. The non-overlapping of Kohler plots and nonlinearity of Hall conductance both demonstrate the two carriers in the $SrMnBi_2$ thin films. See: Xiao Yan, et al., Two-carrier transport in $SrMnBi_2$ thin films, *Front. Phys.* 12(3), 127209 (2017).

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