

Abstract Submitted  
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**Magnetic and transport properties of  $\text{Fe}_{1-x}\text{Co}_x\text{Sb}_2$**  RONGWEI HU,  
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— Anisotropic magnetic and electronic transport measurements were carried out  
on large single crystals of  $\text{Fe}_{1-x}\text{Co}_x\text{Sb}_2$ , grown by self flux method, in the temper-  
ature range 1.8-350K for  $0 \leq x \leq 1$ . The diamagnetic semiconducting state of  $\text{FeSb}_2$   
evolved into metallic by substitution of Fe with Co for  $x < 0.5$ . With further doping  
there was a structural transformation from orthorhombic Pnmm structure of  $\text{FeSb}_2$   
to monoclinic P21/c structure of  $\text{CoSb}_2$ . Large magnetoresistance and anisotropy  
in electronic transport were observed.

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