

## Magnetism in the Ternary $\text{CaMn}_2\text{Sb}_2$ System

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$\text{CaMn}_2\text{Sb}_2$  single crystals with the  $\text{CaAl}_2\text{Si}_2$  structure have been studied with the magnetic field applied along the *c*-axis. Magnetization measurements indicated two magnetic phase transitions at 85 K and 250 K respectively. The high temperature transition is associated to an antiferromagnetic ordering. Also our measurements suggest that this high temperature transition is a short-range one where magnetic correlations persist in the sample at very high temperatures. On the other hand, a new magnetic transition is detected at low temperatures that seems to transform sharply the magnetic structure of the sample. Heat Capacity measurements show a peak at this last temperature, suggesting that at this point, a strong modification takes place in the physical properties of this compound. Further work is in progress on similar compounds.

### Acknowledgements

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### References

[1] N.A.M. Gomes *et al.*, J. Phys.: Condens. Matter (submitted).