

*Hinode-3: 3rd Hinode Science Meeting  
Hitotsubashi Memorial Hall, Tokyo  
1-4 December, 2009*

## **Heating of the solar atmosphere**

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**Abstract.** We will consider heating of the upper layers of the solar atmosphere; the chromosphere, the transition region, and the corona. We will pay special attention to the diagnostics of the heating processes in light of observations possible with Hinode and other modern high resolution observatories, and also in light of current numerical simulations.