Magnetic Reconnection on the Sun (tutorial)
(European Fusion Theory Conference, Frascati, Sept 2011)
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The talk will review the role of magnetic reconnection in the Sun’s atmosphere, especially in coronal heating and solar flares. It will also describe the theory that has been developed for the magnetohydrodynamics of magnetic reconnection, both at null points and in the absence of null points. After summarizing the classical models of two-dimensional reconnection, most of the emphasis will be on the new models that have been proposed for three-dimensional reconnection.