A Low Cost, Low-temperature Crystal Mounting Device

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A low cost, low-temperature crystal mounting device is described. The device consists of a water cooled Al block and a pair of Peltier chips. In our setup, the Peltier chips can be cooled to -30 °C. Ice formation on the samples is inhibited by gently flowing dry nitrogen gas over the assembly. The assembly is small enough to be used with a binocular microscope.