

Electronic Supplementary Information

Structural and Optical Properties of Methylhydrazinium Lead Bromide Perovskites Under Pressure

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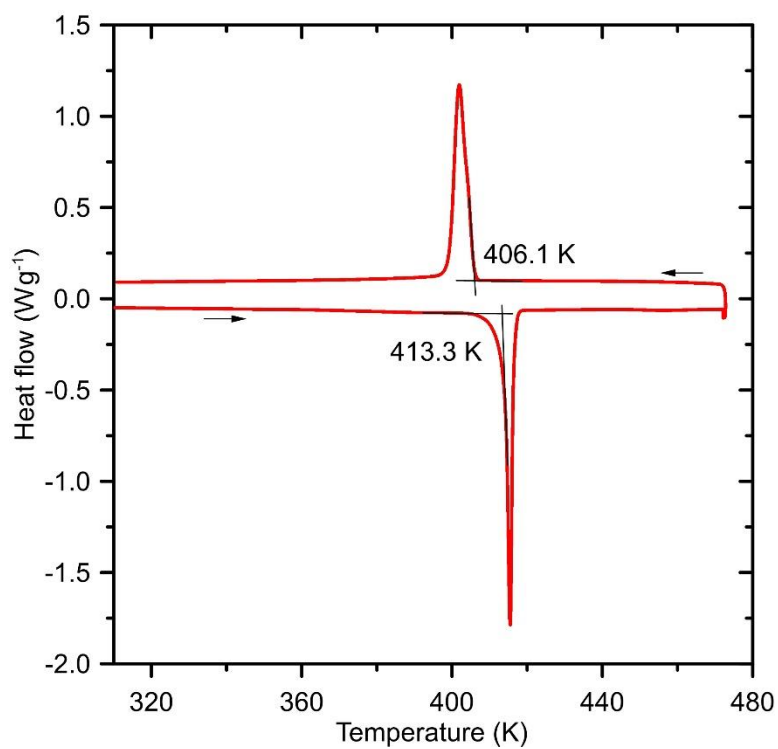


Fig. S1. DSC heating and cooling runs measured across the phase transition region for polycrystalline sample of MHyPbBr₃. The heat flow was recorded at a rate of temperature changes 10 K/min.

Table S1. Coefficients of Birch-Murnaghan equations of states for phases II and III of MHyPbBr₃.

Equation order	V_0	B_0	B_0'
Phase II			
3 rd	831.2(9)	17.9(11)	6.9(14)
2 nd	830.0(8)	20.2(4)	4
Phase III			
2 nd	808.4(33)	23.6(11)	4

Table S2. Coefficients of Birch-Murnaghan equations of states for phases II and V of MAPbBr₃.

Equation order	V_0	B_0	B_0'
Phase II			
2 nd	207.6(5)	15.1(6)	4
Phase III			
2 nd	207.8(8)	12.9(6)	4

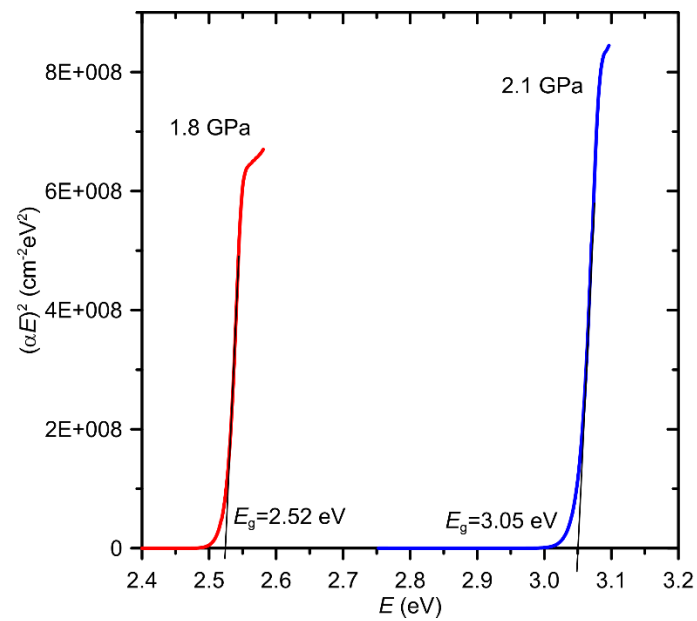


Fig. S2. Tauc plots illustrating the energy gap determination of MHyPbBr₃ in phase II at 1.8 GPa and in phase III at 2.1 GPa.