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In this talk I will present the idea to identify the Euler characteristics of the sutured instanton Floer homology and sutured (Heegaard) Floer homology. Two applications follow: The first is that we could recover the multi-variable Alexander polynomial of the links from instanton knot homology. The second is that we could compute the instanton knot homology for some families of  $(1,1)$ -knots in lens spaces. This is a joint work with Fan Ye. (Received January 14, 2021)