

Abstract Submitted  
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**Towards Fully Organic Tunnel Junctions** BRIDGER ANDERSON,  
TONY CARUSO, MUNIR KADERBHAI, CNSE — Quantum mechanical tunneling  
through ultrathin (25 Å) insulating materials has been experimentally verified since  
the 1950's. Only recently, has tunneling through organic based materials and single  
molecules occurred from inorganic metallic injectors. We present here our effort  
focused on fabrication and characterization of an all organic tunnel junction where  
the injector is a conducting polymer and discuss the subtle difference which stem  
from polaronic metal.

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