



# Fabrication and test of a large area spider-web bolometer for CMB polarization experiment.

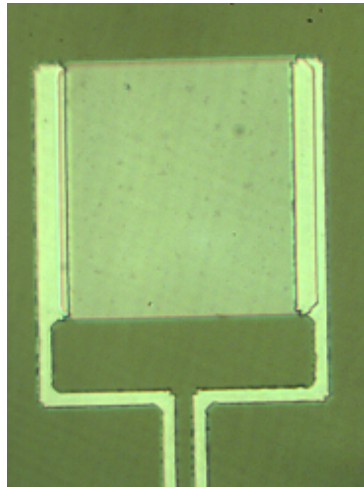
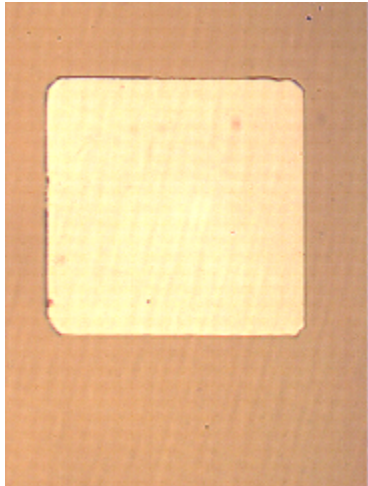


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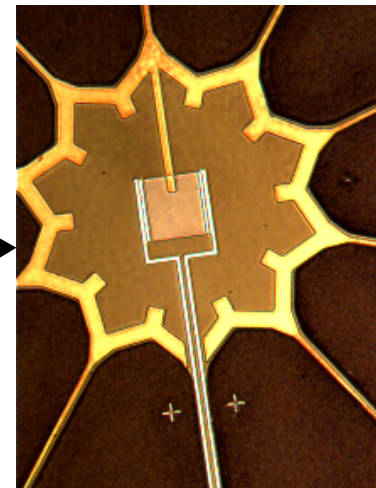
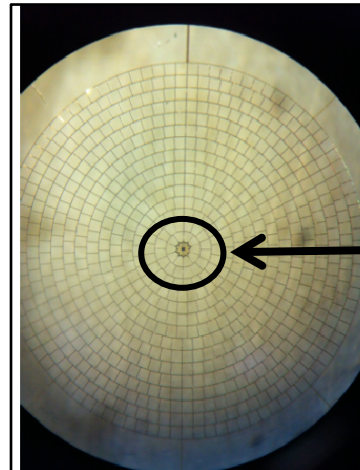
M. Biasotti<sup>1,2</sup>, D.Corsini<sup>1,2</sup>, M. De Gerone<sup>2</sup>, F. Gatti<sup>1,2</sup>, G. Pizzigoni<sup>1,2</sup>  
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In this poster the fabrication processes from a silicon wafer to the final detector will be showed

TES deposition and lift off (Ti)



RIE back wafer etching and  
suspension of spider web structure





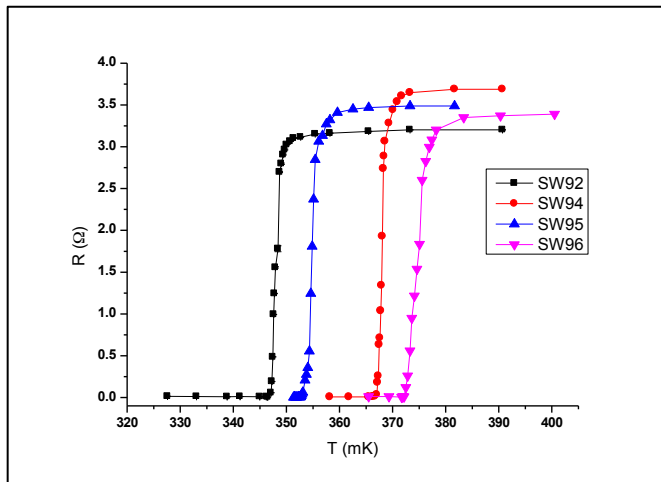
# Fabrication and test of a large area spider-web bolometer for CMB polarization experiment.



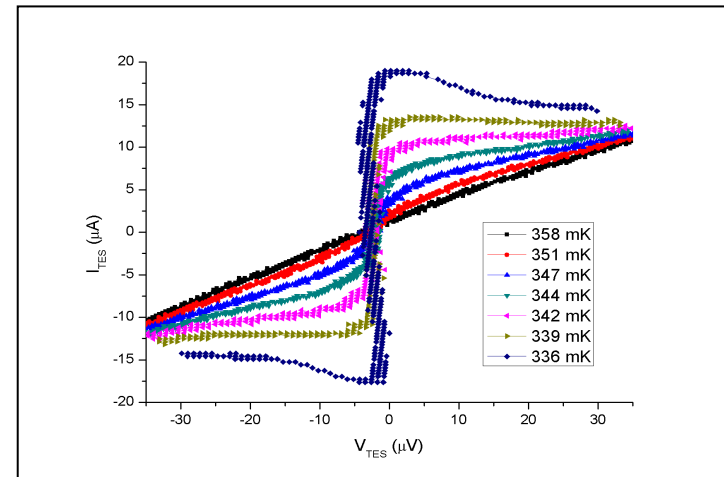
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different samples  
Transitions (Ti/Au)



I-V curves  
@different Temperature (Ti/Au)



In order to reach the required sensitivity we have to work @ 0.5K  
A Ti pure film has a transition temperature of 0.4K so we will switch to Mo/Au