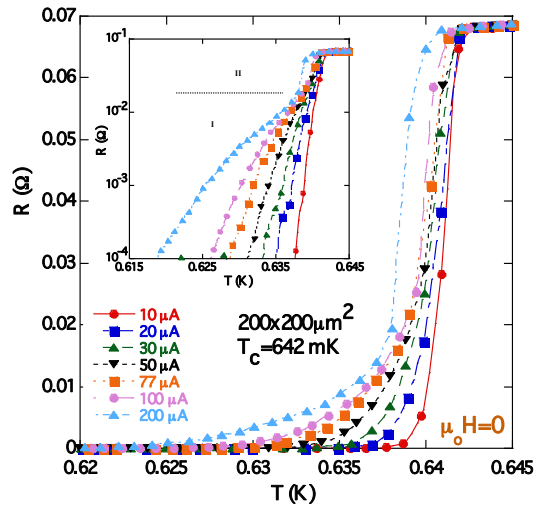
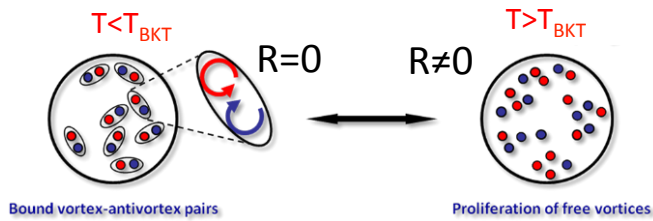


# The superconducting transition in TES: possible role of vortex pair unbinding

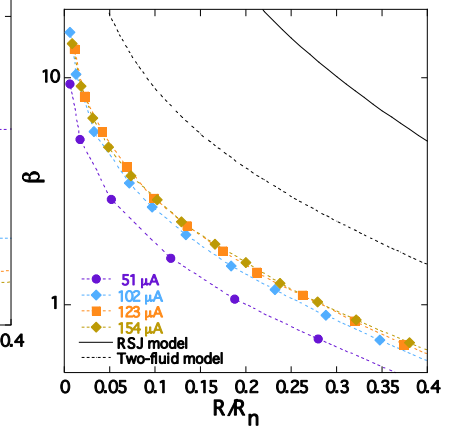
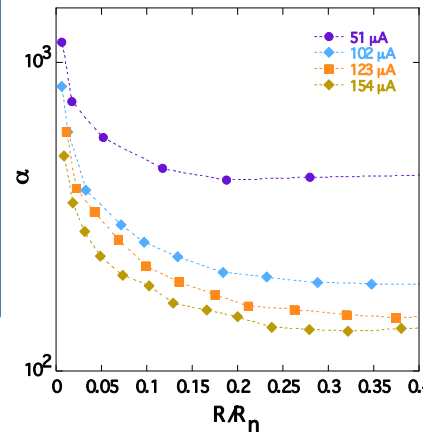
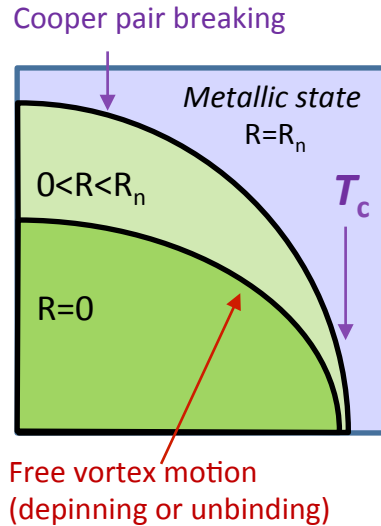
L.Fàbrega, A.Camón, C.Pobes, P.Strichovanec, R.M.Jáudenes

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Vortex pair unbinding: most likely mechanism for finite  $R$  in 2D SC at  $H=0$



Lower part of  $R(T,I)$  of all studied TES: Empirical law compatible with this mechanism



## Consequences for TES

- Significant broadening of  $R(T,I)$
- Different meaning for  $T_c(R=0)$
- Prediction of behavior for  $\alpha, \beta, M$

