



AdS Phase Transitions at finite \kappa

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We investigate the effect of adding a Chern-Simons term coupled to an axion field to SU(2) Einstein-Yang-Mills in a fixed 4D AdS/Sch warzschild background. We show that, as per the vanishing Chern-Simons case, there is a second order phase transition between a Reissner-Nordstrom black-hole and one with a non-abelian condensate. Furthermore, by giving the axion field a mass, one can shift the critical temper ature at which this occurs and observe interesting features of the order parameter scaling form.

<u>存档文本</u>

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