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Tight Scrutiny of Electroweak Phase Transitions.

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The standard model cannot provide a first order Electro-weak phase transition needed to explain Baryogenesis. Extensions to the standard model need to take into account break down of perturbation theory at high temperatures. An all-order resummation is performed via “Ring corrections” to take into account “Daisy diagrams” but this is usually carried out in the high temperature small coupling limit. We extend such analysis to temperatures comparable to the EW scale as well as large(yet perturbative couplings).

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