SCUFF-NEQ Technical Reference

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July 6, 2014

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1 Theory

$$Q = \mathbf{c}^{\dagger} \mathbf{Q}(\omega) \mathbf{c}$$

$$\langle Q \rangle_{\omega} = \sum_{b} \Theta(\omega, T_{b}) \Phi_{b}(\omega), \qquad \Phi_{b}(\omega) \equiv \operatorname{Tr} \left[\mathbf{Q}(\omega) \mathbf{R}_{b} \right]$$

$$R_{b} = \sum_{n} \lambda_{n} \mathbf{v}_{n} \mathbf{v}_{n}^{\dagger} = \sum_{n} \lambda_{n} \mathbf{v}_{n} \mathbf{v}_{n}^{\dagger}$$