Real RHFa Complex RHF Real UHF Complex UHF Real GHF Complex GHF 1A' + 1B' 1A' - 1B'  ${}^{3}A' + {}^{3}B'$ Real RHFa

TABLE I. Matrices required to have positive semidefinite character as a necessary condition for stability

Complex Mili	••				
Real UHF		A' + B'	A' - B'	A'' + B''	
Complex UHF			H'		H''

Complex UHF	H'		H''
Real GHF		A + B	A B

Complex RHF

of self-consistent solution of type X in the space of type Y.

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Complex GHF

<sup>&</sup>lt;sup>a</sup>Singlet closed shell case  $(n_{\alpha} = n_{\beta})$  only.