It so eigen

and recall that the above illustrated avour structure does not interfere with possible preconditionings, such as even-odd and mass shift. In fact, in eq. (3) we can still distinguish the terms coupling matter elds at the same site, such as the mass terms, from those acting on elds de ned on di erent sites, such as Q.

The operator Q

3.2 Parity of the eigedvectors

As we aim at the eigedvalues computatiod of the hermitiad

1. **Test for degeneracy at $\epsilon = 0$**

   The rst c

In all the cases illustrated