Quadratic Atiyah-Bott Localisation

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The Atiyah-Bott localisation theorem and the Graber-Pandharipande virtual localisation formula are standard tools for studying enumerative problems in the presence of a torus action. M. Levine proved similar results for Witt sheaf cohomology, allowing us to retain quadratic information about the enumerative count. We will show how to extend the Atiyah-Bott localisation theorem to any SL-oriented motivic spectrum, once the algebraic Hopf map is inverted. As an application, we will also provide the appropriate virtual localisation formula for fundamental classes in this context.