

## Field-anisotropy phase diagrams of some frustrated magnets

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We study the zero temperature phase diagram of some frustrated spin-1/2 Heisenberg spin models as a function of spatial anisotropy and magnetic field. Using a combination of techniques, including a semiclassical expansion, a dilute spin flip approximation, and a renormalization group method based on coupled chains, different scenarios for ordered states and quantum phase transitions are discussed. Our results are compared with experimental and numerical results.