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Truncation formulas for invariant polynomials of matroids and geometric lattices.

The truncation of a matroid is obtained by removing all bases from the set of independent sets of the matroid. It was known that the Tutte polynomial of a truncated matroid is determined by the Tutte polynomial of the original matroid. We will give similar formulas for the Möbius and spectrum polynomial. We link to polynomials associated to codes by showing that the truncation of a representable matroid is also representable over an extension field.