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Logarithmic vector fields and truncated affine Weyl arrangements.

The factorization theorem by Terao asserts that geometry of logarithmic vector fields controls combinatorial properties of an arrangement. We will discuss about this relationship for non-free arrangements via Solomon-Terao's formula.

As an example, we will closely looked at some family of truncated affine Weyl arrangements associated with a root system. And we will see a parallel phenomena, "h-shift phenomena", between logarithmic vector fields and characteristic polynomials, where h is the Coxeter number. (Received September 23, 2006)