

## **Ideal Free Theorem and Saturated Free Filtrations of Affine Weyl Arrangements**

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Applying our earlier paper "The freeness of ideal subarrangements of Weyl arrangements" (Abe, T., Barakat, M., Cuntz, M., Hoge, T., Terao, H.) (to appear in J. Eur. Math. Soc.; arXiv:1304.8033v4) which affirmatively settled a conjecture by Sommers and Tymoczko, we will show that the ideal-Shi arrangements are free central arrangements of hyperplanes satisfying the dual-partition formula.