1118-32-242 **Hiroaki Terao*** (hterao00@za3.so-net.ne.jp), Office of International Affairs, North 15, West 8, Kita-ku, Sapporo, Hokkaido 060-0815, Japan. *Subarrangements and restrictions of Weyl arrangements.* Preliminary report.

Let $\mathcal{A}$ be a Weyl arrangements arising from a root system. In a recent paper by Abe-Barakat-Cuntz-Hoge-Terao [ABCHT, to appear in J. Euro. Math. Soc.], we proved that every ideal in the root poset gives a free subarrangement with the exponents which are expressed as the dual partition of the height distribution. In my talk, this fact concerning subarrangements is shown to be related to the freeness and the exponents of restrictions of Weyl arrangements. We are especially interested in the restrictions $\mathcal{A}^X$ to subspaces $X$ of the type $A_1 \times \cdots \times A_1$. The result here can be considered as a generalization of an old result by Orlik-Solomon-Terao in "On the Coxeter arrangement and the Coxeter number" (1988) where the restriction is to a hyperplane (or to the type $A_1$). (The contents of this talk were obtained through the collaborations with Takuro Abe and Tran Nhat Tan.) (Received February 02, 2016)