Eine Woche, ein Beispiel 10.2 equivariant K-theory of Steinberg variety: notation

This document is written to reorganize the notations in Tomasz Przezdziecki's master thesis: http://www.math.uni-bonn.de/ag/stroppel/Master%27s%2oThesis_Tomasz%2oPrzezdziecki.pdf

We changed some notation for the convenience of writing.

Task

- 1. dimension vector
- 2. Weyl gp
- 3. alg group & Lie algebra
- 4. typical variety
- 5. (equivariant) stratifications
- 6 tangent space, Euler class
- 7. basis of Hecke alg

We may use two examples for the convenience of presentation. Readers can easily distinguish them by the dim vectors.

1 dimension vector

$$|d| = 5$$

$$d = (3,2)$$

$$\underline{d} = \begin{pmatrix} \frac{3}{2}, \frac{2}{3} \\ \frac{2}{3}, \frac{1}{3} \\ \frac{$$

2. Weyl group

$$0 \longrightarrow W_{\alpha} \longrightarrow W_{|\alpha|} \longrightarrow W_$$

Another example:
$$d = (1,2)$$
 $a \longrightarrow b$ $\langle v_1 \rangle \longrightarrow \langle v_2, v_3 \rangle$

3. alg group & Lie algebra

Giai, Bidi, Tidi, Widi = NGiai (Tidi)