Note on Match-seeking and Match-repelling particles

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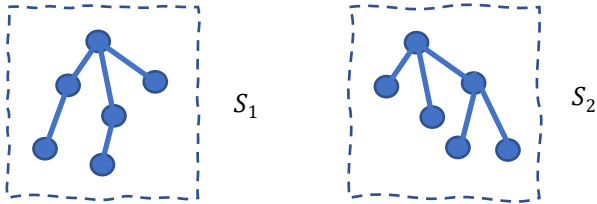
Between two primitive particles
Let us consider two V particles which are not composite – they are given with their semantic signatures respectively:

$$ssig(V') = \begin{bmatrix} \boldsymbol{p}'_0 & \boldsymbol{a}'_{0,1} & \boldsymbol{p}'_1 & \boldsymbol{p}'_0 & \boldsymbol{a}'_{0,2} & \boldsymbol{p}'_2 & \boldsymbol{p}'_0 & \boldsymbol{a}'_{0,3} & \boldsymbol{p}'_3 & \dots & \boldsymbol{p}'_l & \boldsymbol{a}'_{l,n} & \boldsymbol{p}'_n \end{bmatrix}$$
$$ssig(V'') = \begin{bmatrix} \boldsymbol{p}''_0 & \boldsymbol{a}''_{0,1} & \boldsymbol{p}''_1 & \boldsymbol{p}''_0 & \boldsymbol{a}''_{0,2} & \boldsymbol{p}''_2 & \boldsymbol{p}''_0 & \boldsymbol{a}''_{0,3} & \boldsymbol{p}''_3 & \dots & \boldsymbol{p}''_i & \boldsymbol{a}''_{i,n} & \boldsymbol{p}''_n \end{bmatrix}$$

Between two semantic structures
Let us have two semantic structures S_1 and S_2.

Let the semantic signature of S_1 is given with:

$$ssig(S_1) = \begin{bmatrix} \mathbf{V}_1 & \mathbf{A}_{1,2} & \mathbf{V}_2 & \mathbf{A}_{1,3} & \mathbf{V}_3 & \dots & \mathbf{A}_{r,p} & \mathbf{V}_p \end{bmatrix}$$

and the semantic signature of S_2 is given with: