Bounded Linear Logic in a Semiring

Data-usage annotations are from a semiring

• Externally graded: no modality, all hypothesis

are give a grade



Bounded Linear Logic in a Semiring

Given: (R,1,*,0,+)

$$\frac{\Gamma_1, \Gamma_2 \vdash B}{\Gamma_1, A \odot 0, \Gamma_2 \vdash B} \ W$$

$$\frac{\Gamma_1, A \odot r_1, A \odot r_2, \Gamma_2 \vdash B}{\Gamma_1, A \odot (r_1 + r_2), \Gamma_2 \vdash B} C$$