Joint coherence

Abstract.

1. The geometry of strict coherence

w.r.t. the Ecsqaru paper:

- Proposition 2
- Theorem 2
- Corollary 2

As for Corollary 1, it can be improved as follows:

Proposition 1.1. *Let β and β' be two coherent books on $\Phi = \{e_1, \ldots, e_k\}$. Then the following claims are equivalent:*

(1) *β and β' are jointly coherent;*
(2) *$\beta, \beta' \in \mathscr{C}_\beta \cap \mathscr{C}_{\beta'}$;*
(3) *There are $\alpha, \gamma \in \Xi(\beta, \beta')$ such that $\mathscr{C}_\beta \cap \mathscr{C}_{\beta'} = \mathscr{C}_\alpha$ and $\mathscr{C}_\beta \cup \mathscr{C}_{\beta'} = \mathscr{C}_\gamma$.*

2. Models of jointly coherent books