Topological u->ribbon and v->ribbon maps

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[Dylan's construction:](#) (from 2008-06/Rings and Wickets)

$$\gamma \subset \Sigma \longmapsto \gamma \times S^1 \subset \Sigma \times D^2 \subset \mathbb{R}^4$$

in a natural way, via the natural unknotted $\Sigma \hookrightarrow \mathbb{R}^3$

http://drorbn.net/bbs/show?shot=Dancso-130325-165719.jpg: