1096-18-1118 **Jean Goubault-Larrecq*** (`goubault@lsv.ens-cachan.fr`), LSV, ENS Cachan, 61, avenue du président Wilson, 94230 CACHAN, France. *The Escardó-Lawson-Simpson Construction.*

In 2004 (Topol. and its Applications 143), Escardó, Lawson, and Simpson proposed an elegant construction of Cartesian-closed full subcategories of $\mathbf{T}op$. The well-known subcategory of compactly-generated spaces is one example, and there are many others.

We shall show that their construction applies not only to $\mathbf{T}op$, but to any well-fibered topological construct $(\mathbf{C}, |\_|)$. The construction is parameterized by a class $\mathcal{C}$ of exponentiable objects that is closed under finite products, and proceeds in two steps. First, we build a category $\mathbf{M}ap$ whose objects are the same as in $\mathbf{C}$, but whose morphisms are, to say it roughly, set functions that are indistinguishable from morphisms in $\mathbf{C}$ from the point of view of $\mathcal{C}$. One easily shows that $\mathbf{M}ap$ is Cartesian-closed. In a second step, we show that $\mathbf{M}ap$ is equivalent to a coreflective subcategory $\mathbf{C}_{\mathcal{C}}$ of so-called $\mathcal{C}$-generated objects of $\mathbf{C}$.

This allows us to generalize a result of Krishnan (Appl. Cat. Structures 17, 2009) and provide many Cartesian closed categories of streams and prestreams. We also characterize the largest such (Exponentiable Streams and Prestreams, Appl. Cat. Structures, 2013). (Received September 13, 2013)