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*Solenoids and their C\*-algebras*

Given a map  $g : Y \rightarrow Y$  that is continuous and onto, one can construct a solenoid, which is the stationary inverse limit associated to  $g$ . This process leads to a space  $X$  and a homeomorphism  $\varphi : X \rightarrow X$ . The dynamics of  $g$  and  $\varphi$  are very much related. I will discuss various examples of this process and the C\*-algebras associated with solenoids. In particular, we will see examples where  $Y$  is non-Hausdorff, but the associated solenoid  $X$  is Hausdorff.