## **Inverse Semigroup Shifts**

## Marcelo Sobottka<sup>1</sup>

 $^1$  UFSC

For the case of shift spaces over finite alphabets, Kitchens proved that any group shift is isomorphic to a full shift product a finite set. We extend Kitchens's result for shift spaces over infinite count able alphabets with the Ot t-Tomforde-Willis compactification scheme. We prove that inverse semigroup shifts are always isomorphic to a full shift (over a countable alphabet) product a special type of shift spaces which we named 'fractal shifts'.

This is a joint research with D. Gonçalves (UFSC-Brazil) and C. Starling (Carleton-Canada).

This research was supported by CNPq-Brazil and Capes-Brazil grants.