



PONTIFICIA UNIVERSIDAD  
**CATOLICA**  
DE VALPARAISO

## CERTIFICATE

# Pierre Guiraud

We hereby certify that, Pierre Guiraud, UV, participated in the “Chile - New Zealand Workshop on Dynamical Systems”, held at IMA-PUCV, Valparaíso, Chile, from January 6 to January 8, 2015, and presented the following work:  
“Applications and asymptotic dynamics of piecewise contracting maps”.

Valparaíso, Chile, January 8, 2015

**Carlos Vásquez Ehrenfeld**  
Organizing Committee

Pontificia Universidad Católica de Valparaíso  
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