



This is to certify that

Louis Rowen
Bar-Ilan University

*dictated the talk “Tropical Hopf algebras and weak Hopf algebras” at the XXI
Coloquio Latinoamericano de Álgebra that took place in Buenos Aires, Argentina,
from July 25 to 29, 2016.*

A handwritten signature in blue ink, appearing to be "TK", written over a horizontal line.

Prof. Teresa Krick
XXICLA Organizing Committee