

# Structural Analysis for Pen-Based Math Input Systems

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## **Abstract**

In this talk we will describe a real-time method for interpreting handwritten mathematics on a pen-input device. The general problem is to convert two-dimensional handwritten math into a mathematically correct expression. In our case, the conversion of our handwritten expression is stored as an annotated MathML tree, allowing us to interact with existing computer algebra systems such as Maple and Mathematica.