

 A portrait of Gabriel Balint-Kurti, an older man with glasses and a light-colored checkered shirt, smiling slightly. He is positioned in front of a window with white horizontal blinds.	<p>Gabriel Balint-Kurti Centre for Computational Chemistry University of Bristol</p> <p>Area of research: Molecular Quantum Dynamics</p>
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The second slide shows Professor Laganá at a conference in Telluride surrounded by many of the leaders in the field of quantum reactive scattering.

Slide number 5 shows the title page of our first joint paper.

The next 3 slide show the evolution of this work, showing the initial apparent disagreement of my time-dependent calculations and Professor Laganá's time independent results. These were then reconciled when Professor Laganá performed his time-independent calculations on a finer energy grid – resulting in complete agreement.

Slide 10 outlines the differences between the time-dependent and time-independent approaches to quantum reactive scattering.

Slide 11 shows a potential energy surface for the $\text{Li} + \text{HF} \rightarrow \text{LIF} + \text{H}$ reaction.

Slides 14 and 15 discuss the initial wavepacket for a time-dependent calculation.

Slides 16-23 show the progress of the wavepacket during the reaction.

Slides 24-26 discuss the calculation of the S matrix and the scattering cross sections.

Slides 27-36 discuss some calculations on the $\text{O} + \text{H}_2 \rightarrow \text{OH} + \text{H}$ reaction and the comparison with experimental results.

Slides 37-38 discuss the real wavepacket method introduced by Stephen Gray.

Slides 39-41 quote examples of time-dependent wavepacket calculations carried out by other research workers.

Slide 42 shows a photograph of Antonio Laganá at a conference I organised in Bristol.

Slide 43 lists some of my review articles.

The final slide advertises a recent book I have written.