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The two symposia, the Hayashibara Forum and the MSJ/IHÉS Joint Workshop, were held at the Institute des Hautes Études Scientifiques (IHÉS) in November 2006. The Hayashibara Forum focused on singularity theory, which has been one of the research areas that has over the years been well represented at IHÉS. The MSJ/IHÉS Joint Workshop focused on the broad area of noncommutativity, with an emphasis on noncommutative geometry as one of the fundamental themes of 21st century mathematics.

This volume contains papers presented at the symposia in the form of invited lectures and contributed talks by young researchers. The scope of this volume reflects a new development for singularity theory and a new direction in mathematics through noncommutativity. This volume aims to inspire not only the specialists in these fields but also a wider audience of mathematicians.

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