

Papers dedicated to Idun Reiten
on the occasion of her
60th birthday

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Preface

To honour Idun Reiten on her sixtieth birthday all her friends and colleagues were invited to submit the papers they intended to dedicate to Idun on this occasion, to be included in an exclusive volume. As a result we received 53 papers by 80 authors/coauthors (at least two more papers did not make the deadline for this preliminary volume¹). All these papers will appear in different journals, so it is only in this volume that they appear together.² When a reprint of all papers become available, these will be collected to an exclusive bounded volume to be presented to Idun.

Idun Reiten celebrates her sixtieth birthday on Tuesday 1st January 2002. She received her PhD at the University of Illinois in 1971 as a student of Robert Fossum (see page ix for her mathematical family tree). In 1982 she was appointed a professor in Trondheim, at what is now called NTNU. She has so far authored/coauthored almost 100 papers in a variety of topics within algebra. The main topics of her work have been the representation theory of artin algebras and more general ring and module theory, including commutative ring theory and the theory of orders. Homological methods have been central in much of her work. There are relations to Schur algebras, Koszul algebras, noncommutative algebraic geometry and triangulated categories. Her work with Maurice Auslander on almost split sequences (later also called Auslander-Reiten sequences) is one of the major milestones. The importance of this concept is illustrated by the fact that it is now given a separate number within the The Mathematics Subject Classification (MSC2000). In 1998 she was an invited speaker at the International Congress of Mathematicians in Berlin.

Idun is a popular and brilliant teacher. She has supervised four students for PhD and 16 students for master degree (some jointly with others). We, her students and colleagues, have learned to appreciate Idun's lectures and mathematical conversations. Both for the clarity in her presentation, and for revealing to us, her underlying joy of doing, discussing and teaching mathematics.

On behalf of all our friends and colleagues, the representation theory group in Trondheim greets Idun on her birthday. We look forward to having her as a teacher, collaborator and friend in the years to come. We also hope and believe that she will continue to challenge us at the blackboard (and for some of us: even at the tennis-court) also in the future. From all of us:

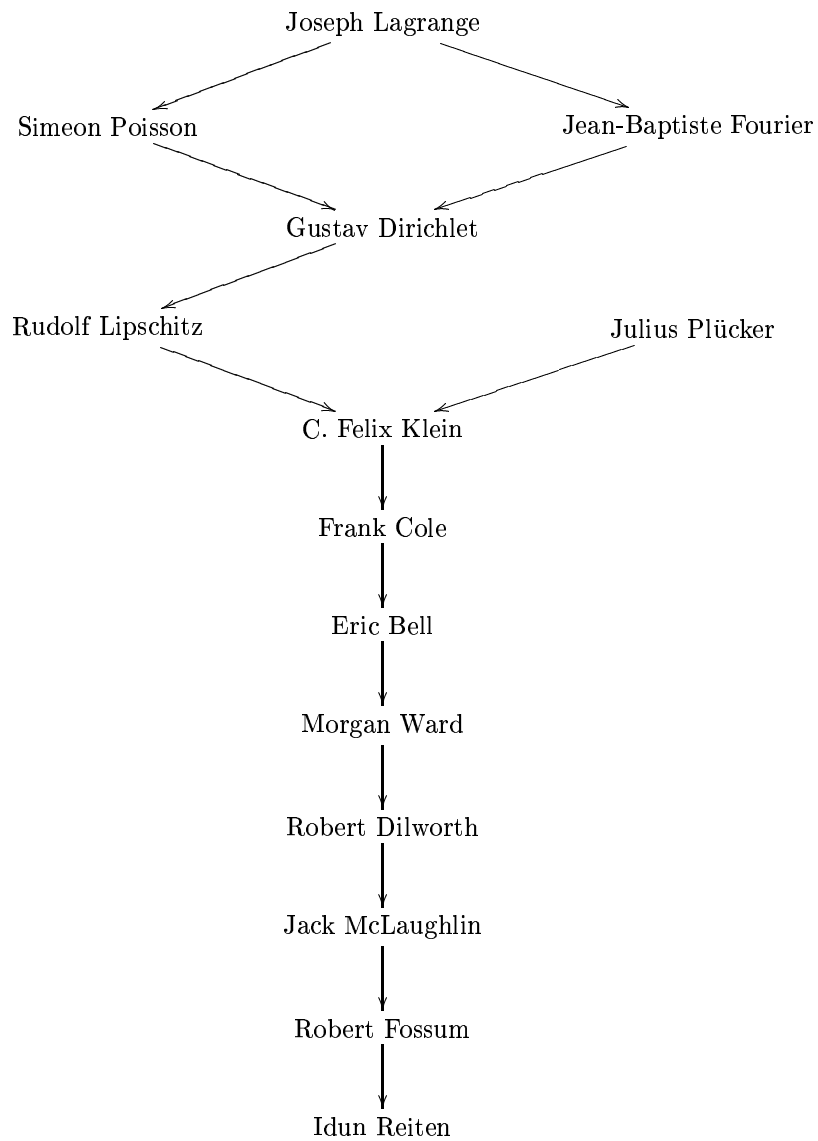
Happy Birthday

¹Jan Erik Roos, *Modules with strange homological properties and Chebychev polynomials* and a paper by Fred von Oeystayen and a coauthor.

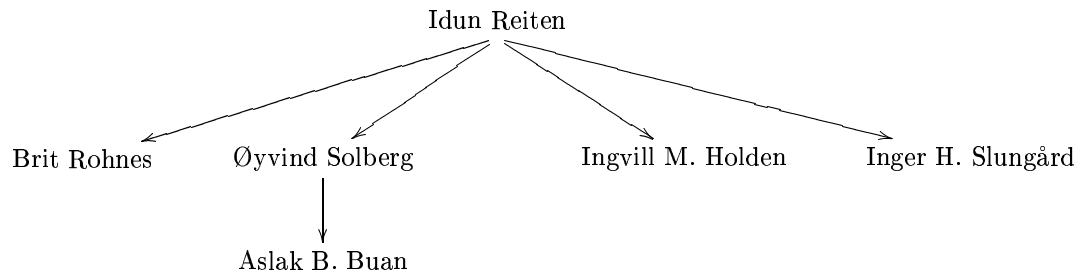
²The different papers are listed in the table of contents, and the list of contributors is on page xi. There is a variety of topics included in this volume and no attempt is done to group them in any particular way beyond arranging them in alphabetically order according to the first author of each paper.

Idun's mathematical family quiver

Part 1: Idun as a leaf



Part 2: Idun as a root



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