Selmer center
Within the department the Selmer Center forms the largest research unit, consisting of 6 professors, 9 postdoctoral researchers and researchers as well as 8 PhD students. It is devoted to research in reliable and secure communications and emphasizes theoretical studies. The investigations cover a broad spectrum of topics in fundamental fields such as information theory, cryptography and information security. The scientists work in three corresponding subgroups with overlapping research interests.

Assessment
The Selmer Center is an internationally renowned research group that has done outstanding work for decades. The staff works on challenging research problems and has made significant progress towards resolving extremely hard open questions. The productivity is impressive, in terms of both quality and quantity. Since 2006 the group has published a remarkable number of 96 journal articles and 125 conference papers. This includes many contributions in top international venues and, in particular, numerous papers in the flagship journal IEEE Transactions on Information Theory. The group has been very successful in acquiring external funding, mostly from the RCN and the EU. It also received a grant as a Marie Curie Training Site. Since 2008 10 PhD students graduated in the center. The group members have been active organizing international workshops and conferences. They frequently serve on the programming committees of leading conference and also act as associate editors of prestigious journals.

Grade: 5

Recommendations
The committee offers the following recommendations

- The pending retirement of two very distinguished group members is a serious threat to the continued success of the Center. Concrete plans for how to cope with this generation change are urgently needed.

- The group expands its activities in the area of security as an emerging field with significant importance and growth.