Lateral Thinking - Sharing Technology Across Disciplines

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With the rapid deployment of new radio experiments exploiting the latest in antenna design, receiver systems and digital signal processing, it is easy to forget the common ground as projects forge ahead in their particular research directions. Yet, this is precisely where cross-discipline collaboration is ideally placed to identify and capitalise on hard-won experience and valuable lessons. The KAIRA (Kilpisjärvi Atmospheric Imaging Receiver Array) project is a new venture of the Sodankylä Geophysical Observatory in Finland, and it intends to do just that. Drawing heavily on the advances in the astrophysics community, this system makes use of not only research technology, but also on the experience of deployment and commissioning. It is only through the use of existing system design and established knowledge that KAIRA can aim to complete the ambitious build programme set out for 2011, overcoming climate and site considerations to achieve success. Furthermore, by tactical use of previous project experience, major cost savings can be made, thus making the project even more scientifically attractive. This poster highlights the links between the KAIRA and LOFAR projects and shows the areas where common technology and staff-learning can be deployed to the strategic advantage of both projects. It also looks ahead to future possible collaborations and identifies candidates such as SKA and EISCAT.