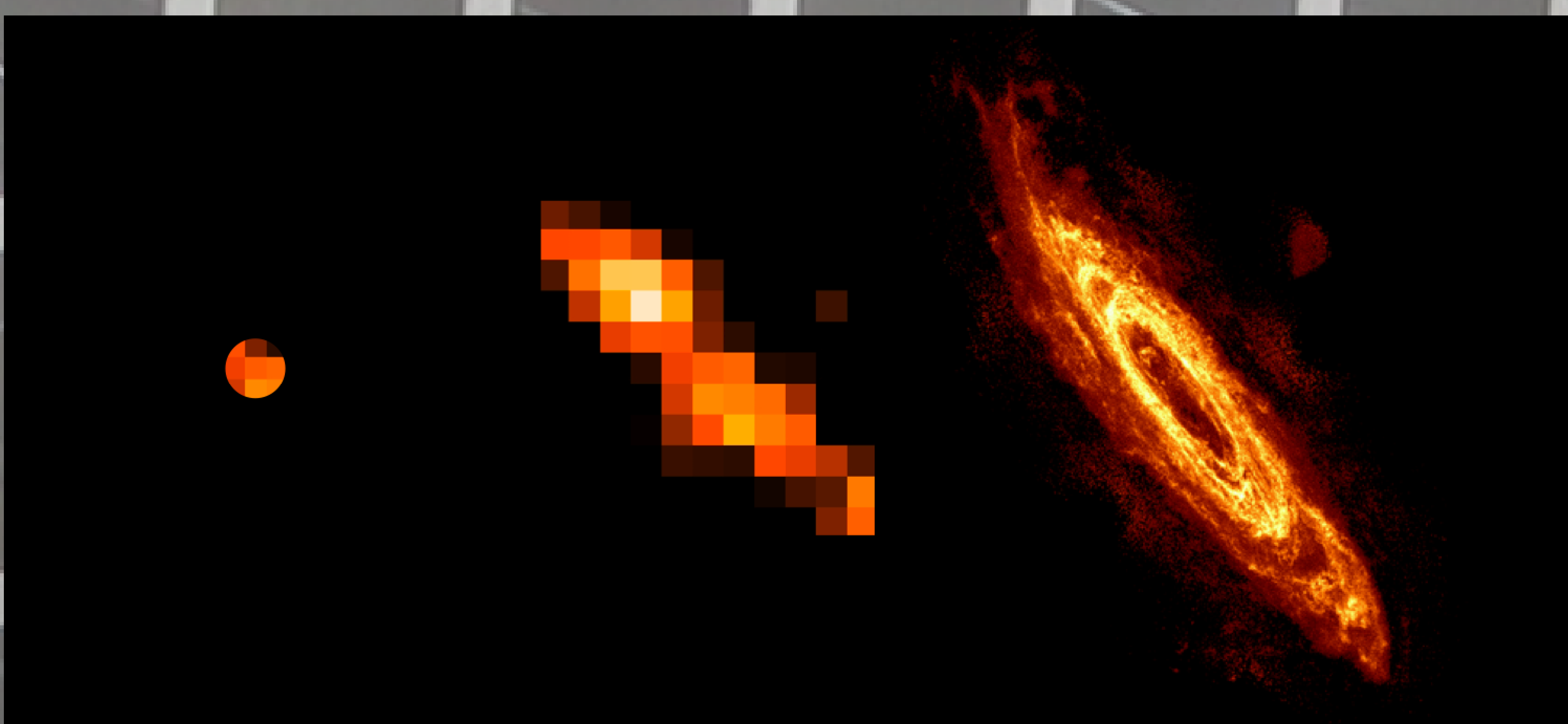


APERTIF

Apertif is the focal-plane array that will increase the field of view of the Westerbork radio telescope with a factor 37.



Large field of view – M31 in a *single pointing*

Left: single pointing from one traditional WSRT dish
Middle: same, from the single dish with APERTIF prototype
Right: same, simulated, using 12 dishes + APERTIF (2011)

The Phased Array Feed

Top: the APERTIF prototype focal-plane array as installed in one of the WSRT dishes.

Bottom: compound beam patterns, illustrating the large field of view of APERTIF. Each panel covers the same 3x3 degrees on the sky and depicts the beam that is created by combining different focal plane array reception elements. Thus the entire 3x3 degree field of view is tiled out.

