



# *The PSF for clusters at high redshift with XMM-Newton*

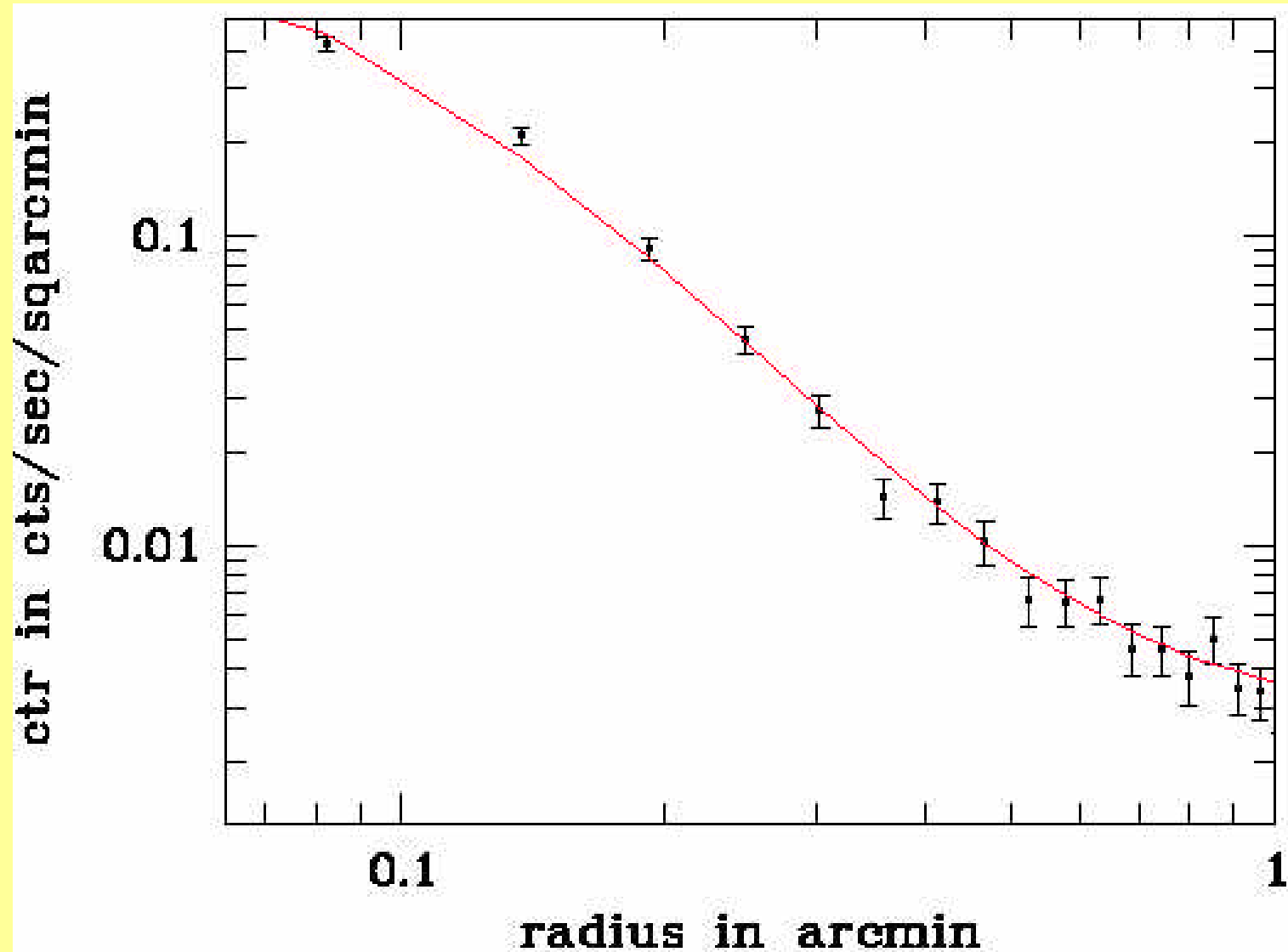
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Doris Neumann, CEA/Saclay  
in collaboration with M. Arnaud

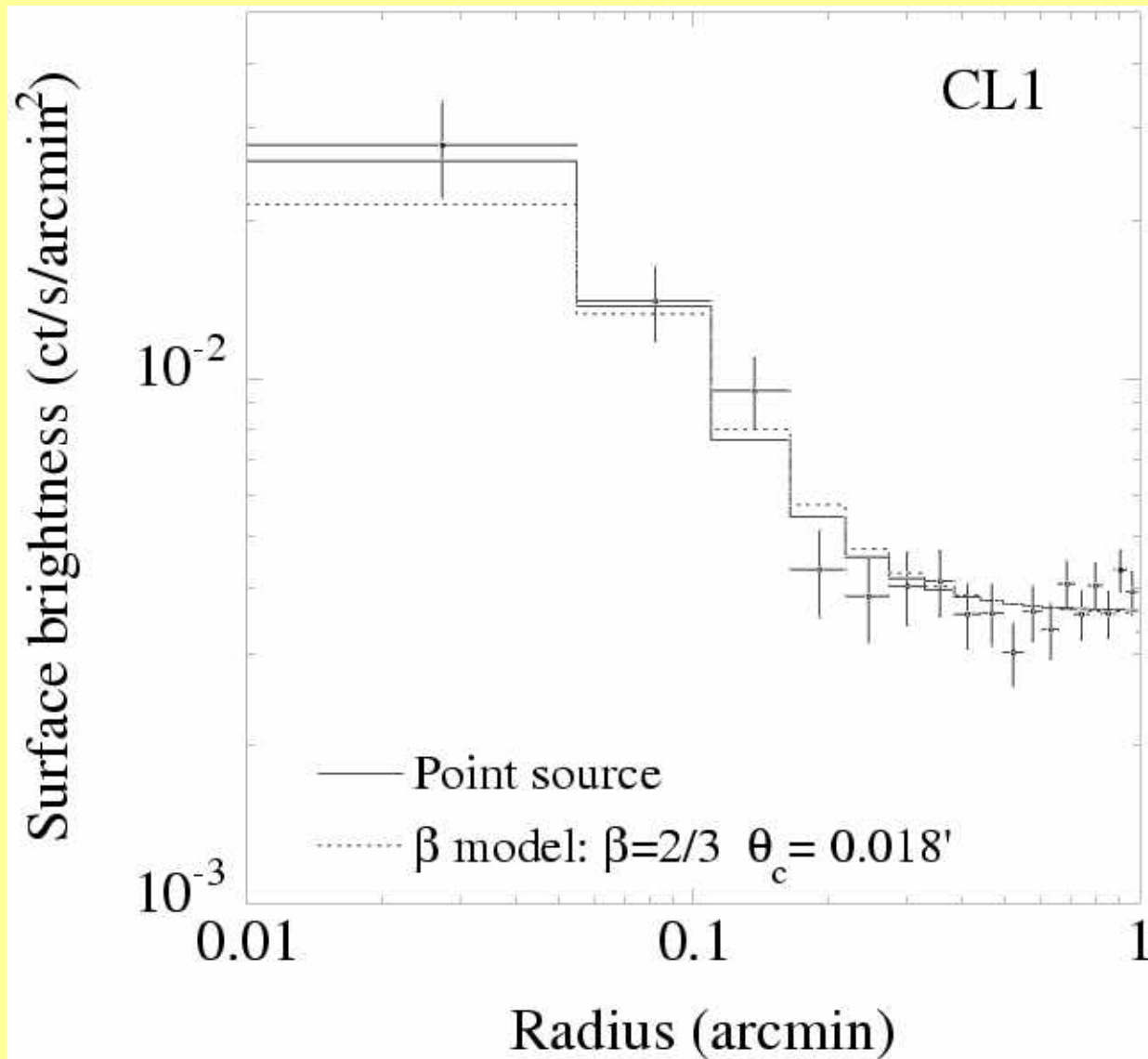
why is it so important to know the PSF so  
accurately for distant clusters of galaxies?

Gives strong constraints on emission  
mechanism : extended plasma or AGN

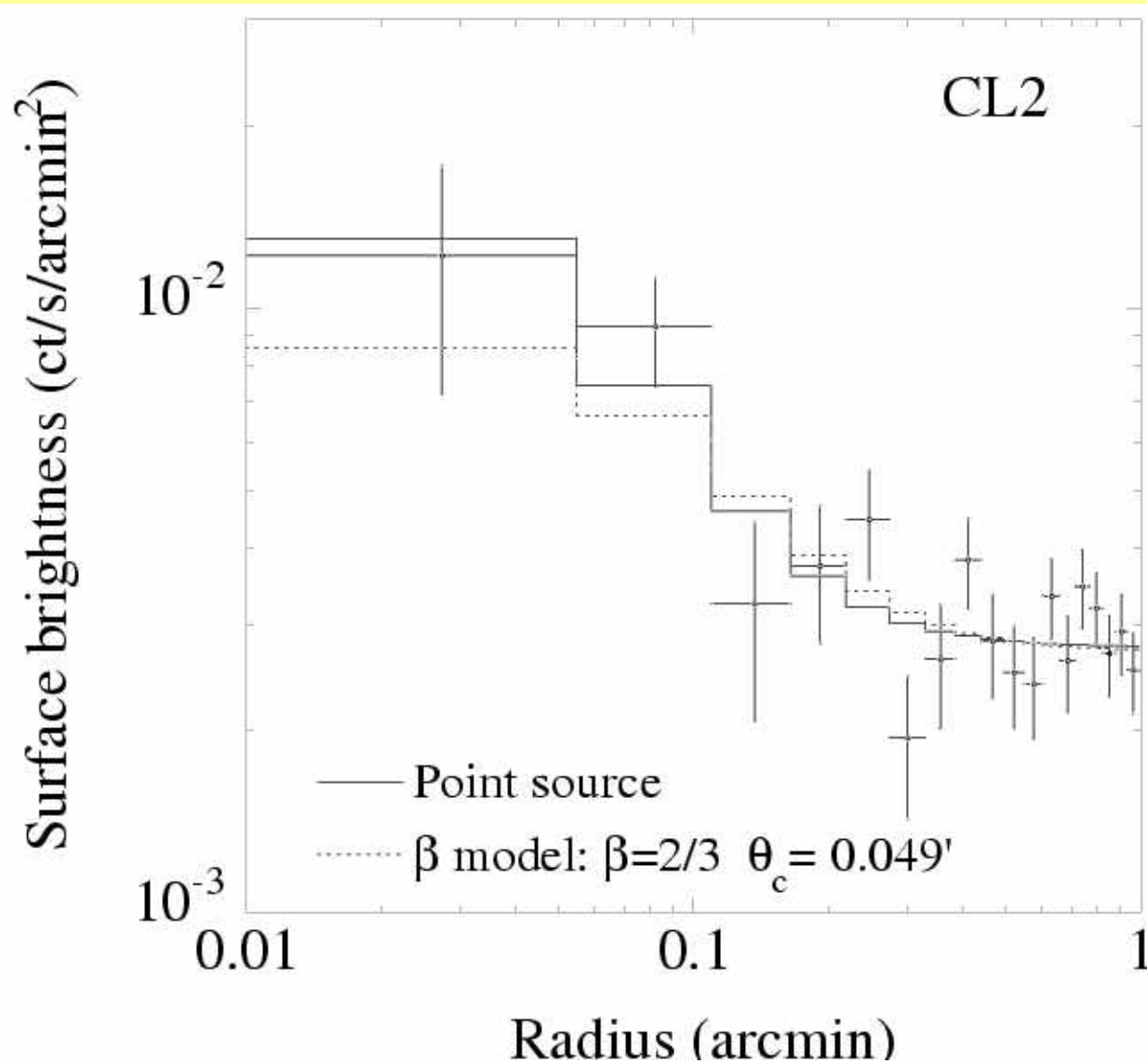
# *The example of an AGN at $z=2$*



# *A cluster candidate at $z=1.7$*



# *Another cluster candidate at $z=1.3$*





# *Conclusion*

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The PSF of XMM seems to be well constrained and can be used to measure source extends of distant clusters

This is important for the search of distant clusters in serendipitous XMM-Newton surveys