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## Why does beam-area conversion fail in AIPS for fits images exported with CASA?

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The CASA task *exportfits* sets the header keyword BUNIT as 'JY/BEAM' in CASA 4.2 and earlier, whereas it is 'Jy/beam' in CASA  $\geq 4.3$ . The BUNIT keyword is case-sensitive and 'Jy/beam' is adopted as FITS standard.

This change of the units can cause a problem on the beam-area conversion with some AIPS tasks if the AIPS version is  $\leq 31DEC14$  and the CASA version for *exportfits* is  $\geq 4.3$ . The issue has been fixed in the 31DEC15 version of AIPS. The solution for older versions of AIPS is to change the units in the header to 'JY/BEAM' from 'Jy/beam' with PUTHEAD.