

Spectral classification

International Virtual Observatory Alliance

IVOA Documents



AN ENCODING SYSTEM TO REPRESENT STELLAR SPECTRAL CLASSES IN ARCHIVAL
DATABASES AND CATALOGS

Version 1.03

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Interest/Working Group:

<http://www.ivoa.net/twiki/bin/view/IVOA/IvoaSemantics>

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Scheme outline

- TT.tt.LL.PPPP
 - where T, t, L and P are digits [0..9]
- TT = main spectral type
- tt = subtype
- LL = luminosity class
- $P_1 P_2 P_3 P_4$
 - $P_1 P_2$ global peculiarities
 - $P_3 P_4$ peculiarities depending on TT

Details

- Anything unknown or not present = 0
- If composite object (P1=1)
 - P3P4 represent the spectral type of the secondary, if it is known

Examples

- F5
 - 13.00.00.0000
- A3 IVn
 - 12.13.21.7000
- O7 IIIf
 - 10.17.23.0002
- SN Ia
 - 29.10.00.0000
- SC9/8 Tc
 - 26.19.00.0041