

Summary of old exam questions, PHAS 2112

		2005	2006	2007	2008	2009
Intensities, moments	radiation	<i>B9</i>	B11	B11	A1	A1
Radiative transfer	radiation		B11	B11		B10
Saha-Boltzman [<i>dropped from course</i>]	radiation	<i>B10</i>	B9		B11	X
Stromgren	interstellar	<i>A1+B7</i>			A6	A5
Interstellar resonance lines (EW, OB stars)	interstellar	<i>A2</i>		A1	A1	
Ionization Equilibrium	interstellar	<i>B7</i>	B8	B10		
Heating & cooling - cold gas	interstellar		A1	B7	A5	A2
Heating & cooling - hot gas	interstellar	<i>B7</i>	B8	B10		
Dust - evidence, extinction curve	interstellar	<i>B11</i>		B7		A3
Absorption lines - broadening, CoG, linear τ	interstellar	<i>B11</i>	B10	B8		B11
Radio-frequency continuum of HII gas	interstellar		A2	A2	B7	B7
Virial theorem	stars				B9	B8
Hydrostatic Equilibrium	stars	<i>A3</i>	B7	A5	B8	
Mean molecular weight definition & calc	stars	<i>A4</i>	A3	A3	B8	
Plane-Parallel	stars	<i>A5</i>				B10
LTE - definition, applicability	stars		A4	A4	A3	A4
Opacity sources [<i>dropped from course</i>]	stars	<i>B9</i>	B11	X	X	X
Eddington Limit	stars		A5	B11	A4	B10
Triple-alpha fusion	nuclear	<i>A6</i>		B9		B9
PP-I	nuclear	<i>B8</i>	B7	B9		B9
r&s process	nuclear	<i>B8</i>	B7	B9	B10	B9
Type Ia (cp Type II, distance)	nuclear	<i>B8</i>	A6	A6		A6