Table 9. Lines identified in the optical spectra of AS 78 and MWC 657

Line	λ_{lab}	MWC 657								AS78			
		OHP 1994				SAO							
		I	RV	EW	Rem.	I	RV	EW	Rem.	I	RV	EW	Rem.
FeII(27)	4233.17	2.4:	−60	1.40									
FeII(38)	4508.28	2.0:	−80	1.06									
FeII(37)	4515.34	1.7:	−63	0.79									
FeII(37)	4520.22	1.3:			blend								
FeII(38)	4522.63	1.5:			+p								
FeII(37)	4534.17	1.1:			weak								
FeII(38)	4541.52	1.8:	−77	1.01									
FeII(38)	4549.47	1.9:	−73	1.77						1.33	−38:	0.61	blend:
FeII(37)	4555.89	1.4:	−70	0.64						1.14	−45:	0.21	double
FeII(20)	4558.58	1.2:	−64	0.27						1.10:	−41:	0.14	noisy
TiII(82)	4571.97									1.18	−43	0.32	
FeII(38)	4576.33									1.05:			
FeII(38)	4583.83	2.1:	−66	1.94						1.64	−40	1.01	P Cyg:
CrII(44)	4588.21									1.15	−45:	0.25	
CrII(44)	4592.05									1.04:			
CrII(44)	4618.83									1.10	−40:	0.09	
FeII(38)	4620.51									1.08	−38	0.05	
FeII(38)	4629.34	1.7:	−62	1.50						1.37	−42	0.33	
CrII(44)	4634.07									1.06	−48:	0.05	
FeII(43)?	4656.18									1.05:	−38:	0.05	
HeI(12)	4713.14									0.91:	−33	0.06	
FeII(43)	4731.47									1.08	−33:	0.09	
TiII(92)?	4805.09									1.04	−44:	0.03	
CrII(30)	4824.14									1.09	−48	0.09	
CrII(30)	4848.25									1.09:	−40:	0.09	
FeII(42)	4923.92	3.4	−69	3.52	P Cyg	2.5	−60	3.21	double	2.30	−41	1.74	P Cyg
FeII(36)	4993.35									1.04	−43:	0.05	
FeII(42)	5018.43	3.2	−60	4.38	P Cyg	3.1	−52	4.68	double	2.69	−39	2.49	P Cyg
SiII(5)?	5041.03									0.95:	−37:	0.05	
SiII(5)	5056.00									0.91	−30:	0.07	
TiII(86)	5129.14									1.07	−32:	0.06	
FeII(42)	5169.03	2.8	−70	3.75	P Cyg	2.8	−55	4.22	double	2.52	−42	2.30	P Cyg

Table 9. Continued.

Line	λ_{lab}	MWC 657								AS78			
		OHP 1994				SAO							
		I	RV	EW	Rem.	I	RV	EW	Rem.	I	RV	EW	Rem.
MgII(2)	5172.68									1.16:	−43:	0.16	
MgII(2)	5183.61									1.18	−40	0.18	
TiII(70)	5188.68									1.10	−38:	0.09	
FeII(49)	5197.57	1.6	−55	1.22		1.6	−65:	1.87		1.37	−41	0.52	P Cyg:
TiII(70)	5226.53									1.11	−40	0.08	
FeII(49)	5234.62	1.6	−79	1.33		1.65	−50:	1.55	double:	1.44	−38	0.60	P Cyg:
CrII(43)	5237.32									1.06:	−40:	0.06	
FeII(49)	5254.93									1.10:		0.09	
FeII(40)	5264.80					1.03				1.04:		0.03	
FeII(49)	5275.99	1.7		2.18	compl	1.75	−53	1.87		1.46	−42	0.55	
FeII(41)	5284.09					1.3:				1.15	−42:	0.11	
FeII(48)	5316.78	2.6	−75	4.15		2.65	−65	4.41		1.90	−42	1.14	P Cyg
FeII(49)	5325.56									1.07	−45:	1.06	
CrII(43)	5334.86									1.08		0.07	
TiII(69)	5336.81									1.04:	−38:	0.09	blend
FeII(48)	5362.86	1.3	−70	0.84		1.32	−55:	0.82		1.19	−40	0.24	
CrII(23)	5407.62									1.04:		0.04	
FeII(49)	5425.25					1.15:	−52:	0.18		1.06	−38:	0.06	
DIB	5487.67									0.98:		0.01	
CrII(50)	5502.05									1.03:	−40:	0.03	
FeII(55)	5534.86	1.3	−77	0.60		1.30:	−40:	0.54		1.15	−40	0.16	
[O I](3f)	5577.35					2.6				1.66			tell.
[O I](3f)	5577.35					1.25:	−18			1.07	−30:	0.39	
DIB	5780.41	0.74	−34	0.54		0.70	−18:	0.48		0.82	−10	0.43	
DIB	5797.03	0.85	−26	0.15		0.77			noisy	0.87	−10:	0.11	
DIB	5849.79					0.88:		0.10		0.97:	+1:	0.01	
HeI(2)	5875.65	0.88	−188	0.28						0.86	−33:	0.31	
NaI(1)	5889.95	1.17	−96	0.05						1.27	−102	0.14	
NaI(1)	5889.95	0.02	−29	0.98	-71/-138	0.34	−40	1.19		0.25	−40	0.88	[a]
NaI(1)	5895.92	1.14	−94	0.05						1.22	−102	0.14	
NaI(1)	5895.92	0.02	−26	0.85	-75/-143	0.36	−32:	0.98		0.30	−40	0.72	[a]

Table 9. Continued.

Line	λ_{lab}	MWC 657								AS78			
		OHP 1994				SAO							
		I	RV	EW	Rem.	I	RV	EW	Rem.	I	RV	EW	Rem.
SiII(4)?	5978.93				noisy	1.19:	−90:	0.82					
FeII(74)	6147.74	1.1		0.29	+f	1.10		0.31	+f	1.06	−30	0.18	+f
FeII(74)	6149.23					1.10:					−45		
DIB	6194.73									0.97:		0.03	+f
DIB	6195.95									0.97:			
DIB	6203.19					0.90:	−23:			0.96	−15:	0.03	compl
FeII(74)	6238.38	1.1	−61	0.16		1.09		0.09	noisy	1.07	−37	0.11	
FeII(74)	6247.56	1.3	−52:	0.66		1.32	−45:	0.88		1.17	−37	0.26	P Cyg:
DIB	6269.77									0.97:		0.05	
DIB	6283.85	0.68		1.74	+6278	0.71		2.64	+6278	0.82:		1.29	+6278
[O I]	6300.23	2.1	−71	1.21		2.54	−60	2.70		1.32	−35	0.59	
FeII	6317.99	1.6	−85	2.05		1.85	−75	3.11		1.07	−39	0.14	
NeI(1)	6334.43									0.98:	−38:	0.02	
SiII(2)	6347.10	1.3	−65	1.08		1.32	−82	1.50	double				
[O I]	6363.78	1.3	−85	0.31		1.43	−55:	0.67		1.15	−35	0.16	
SiII(2)	6371.36	1.2	−64:	0.77		1.19	−76:	0.62	compl				
FeII	6383.72	1.5	−49:	1.86	compl	1.55	−50:	2.12	blend	1.08		0.17	compl
NeI(1)	6402.25									0.98		0.03	
FeII(74)	6407.25									1.02:			
FeII(74)	6416.92	1.1	−62	0.17		1.10	−70	0.17		1.27		0.24	double
FeII(40)	6432.68	1.1	−63	0.15					noisy	1.10	−30:	0.14	
FeII	6442.95	1.2	−86:	0.44	compl	1.13	−92:	0.32					
FeII(74)	6456.39	1.4	−74	1.19		1.51		1.91	[b]	1.28	−35	0.46	P Cyg:
FeII	6491.28	1.4		0.83	+f	1.30		1.04	+f				
FeII	6493.03	1.2											
FeII	6506.33					1.21	−101	0.45					
FeII(40)	6516.05	1.2	−69	0.43		1.32	−46	0.87		1.05:			
DIB	6613.63	0.87	−27	0.14		0.79	−15	0.26		0.84	−8	0.15	
DIB	6660.64									0.98:	−16:	0.02	

Table 9. Continued.

Line	λ_{lab}	MWC 657								AS78			
		OHP 1994				SAO							
		I	RV	EW	Rem.	I	RV	EW	Rem.	I	RV	EW	Rem.
HeI(2)	6678.15	0.90	−188	0.18						0.93	−38	0.12	
DIB	6699.24									0.98		0.02	
HeI(10)	7065.19									0.95:		0.13	blend
NI(3)	7423.64									1.07:	−30:	0.06	
FeII(73)?	7462.39									1.06:			
[CaI]	7468.41									0.15	−55:	0.41	
FeII	7513.17					1.43	−55:	1.76		1.12:		0.39	blend
FeII(73)	7711.71									1.16	−56:	0.35	
FeII?	7731.68					1.22	−87	0.59					
OI (1)	7771.94					1.1:		0.3:	+2f	1.4:	−35:	3.25	+2f
OI (1)	7774.17					1.4:		2.0:					
OI (1)	7775.40					1.29							
PII (3):	7869.5					1.36		1.39	7865.22				
MgII(8)	7877.13					1.17		0.78	blend				
MgII(8)	7896.37					1.23	−66	1.08					

The intensities are normalized to the continuum, the heliocentric radial velocities (RV) are given in $km\,s^{-1}$, the equivalent widths (EW) are given in Å. The lines with uncertain identification are marked with question marks. Equivalent widths and radial velocities of the lines measured with low accuracy are maked by colons.

Remarks given in the last column are as follows: "PCyg" - P Cyg-type profile; "PCyg:" - weak absorption component ($\geq 0.95\ I_c$); "double" - double-peaked profile; "compl" - complex profile shape; "blend" - blend with another line; "tell" - telluric line; "f" refers to the following line, while "p" to the preceeding line. Equvalent widths and velocities are not given for the lines located in the spectral regions contaminated by telluric absorptions and for very weak lines.

[a] additional absorption components are seen at -4 $km\,s^{-1}$ and probably at -250 $km\,s^{-1}$ in the spectrum of AS 78

[b] at the edge of the order