Table 4. H_2 Transitions and their associated photon energies (E_P's) and relative spectral intensities (I's) associated with Uranian satellite orbital radii (R''_{ui}, R'_{ui} and R_{ui})

i	H_2 Transition[a]	E_P(cm^{-1})[a]	I [a]		E_P's for Figs. 5a ,5b and 5c	Uranian Satellite	(R_{ui}'' or R'_{ui})[b]
11	**(3,2) S(5)**	**4841**	**0.11**				
				→	**4826**[c]	**Ring 6**	**1.637**
12	**(2,1) S(3)**	**4823**	**0.56**				
13	**(1,0) S(1)**	**4713**	**1.6**				
				→	**4712**[c]	**Ring 5**	**1.652**
14	**(3,2) S(4)**	**4699**	**0.09**				
15	(2,1) S(2)	4642	0.44		4642	Ring 4	1.666
15	(2,1) S(2)	4642	0.44		4642	Ring α	1.750
14	**(3,2) S(4)**	**4699**	**0.09**				
				→	**4712**[c]	**Ring β**	**1.786**
13	**(1,0) S(1)**	**4713**	**1.6**				
12	**(2,1) S(3)**	**4823**	**0.56**				
				→	**4826**[c]	**Ring η**	**1.834**
11	**(3,2) S(5)**	**4841**	**0.11**				
10	(1,0) S(2)	4917	0.8		4917	Ring γ	1.863
9	(2,1) S(4)	4990	0.19		4990	Ring δ	1.900
8	(9,7) S(0)[d]	5032	0.06				
7	(1,0) S(3)	5108	1.07		5108	Cordelia	1.948
6	**(2,1) S(5)**	**5142**	**0.25**				
				→	**5144**[c]	**Ring λ**	**1.957**
5	**(9,7) S(1)**	**5147**	**0.11**				
4	**(2,1) S(6)**	**5278**	**0.08**				
				→	**5285**[c]	**Ring ε**	**2.006**
3	**(1,0) S(4)**	**5286**	**0.37**				
2	(9,7) S(3)[d]	5325	0.05				
1	(2,1) S(7)	5397	0.12		5397	Ophelia	2.105

continued