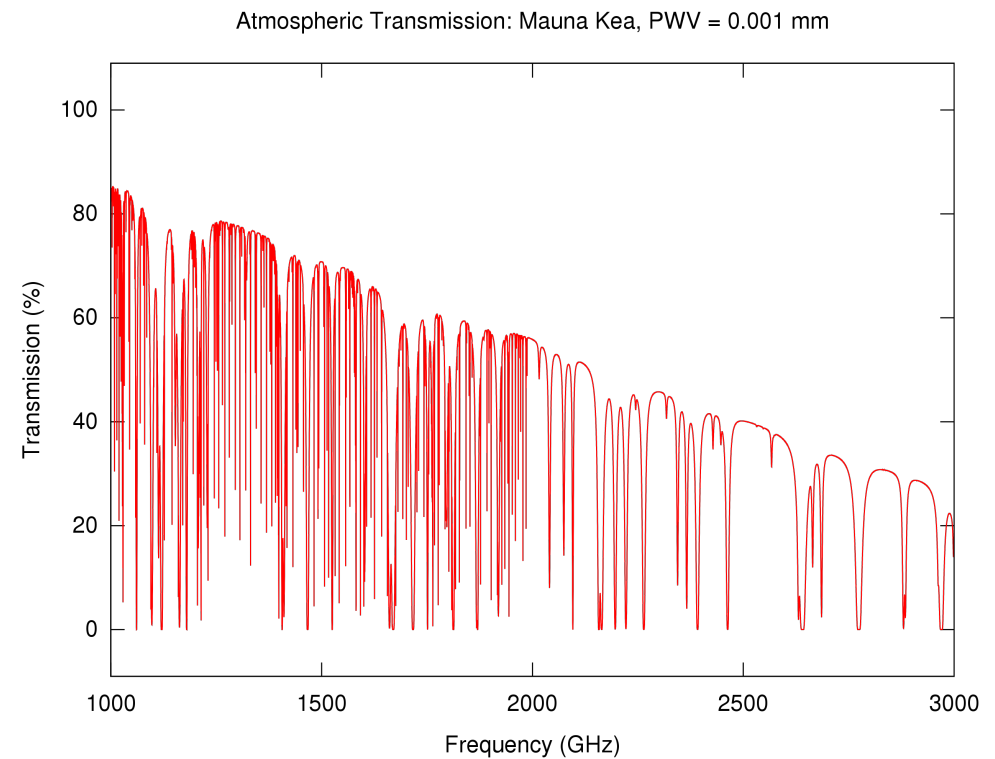
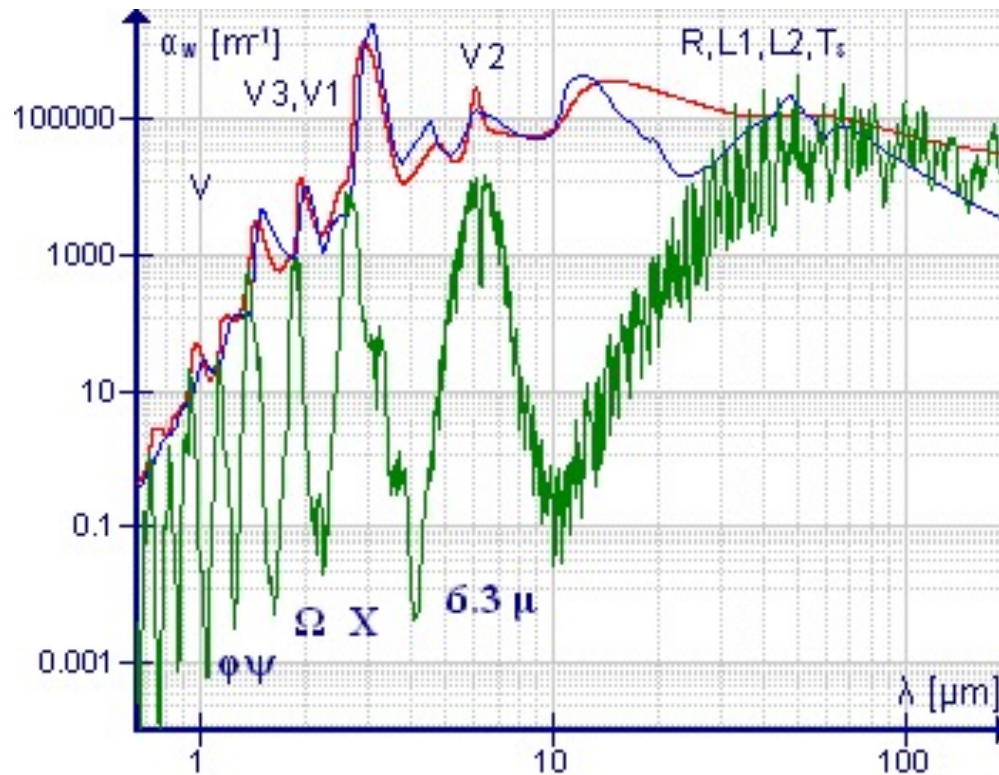


Water absorption spectrum



SLW model, spatial dependence

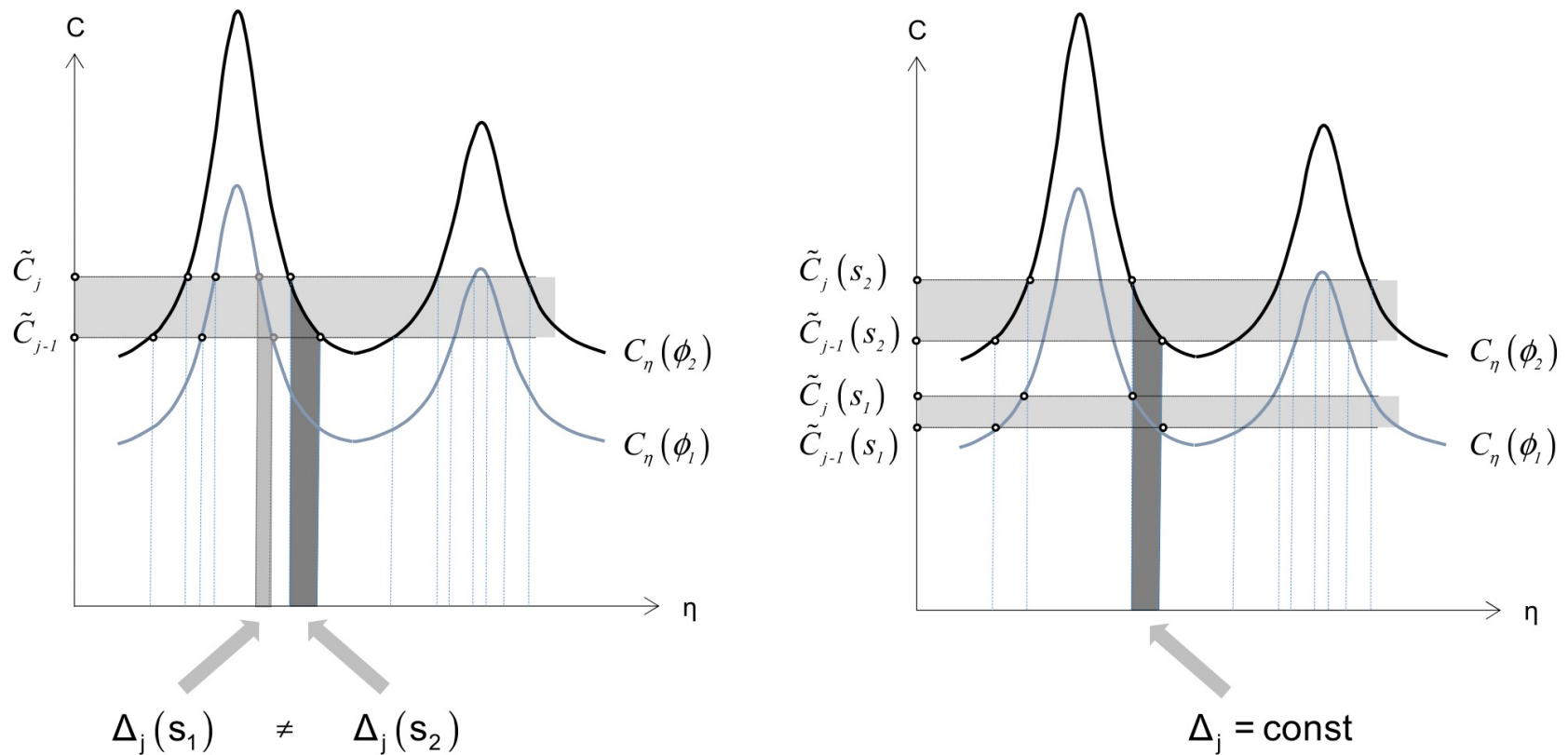


Fig. 2. Gray gas wavenumber intervals $\Delta_j(s)$ in non-uniform media: a) fixed supplemental cross-sections $\tilde{C}_j = \text{const}$ - variable intervals $\Delta_j(s)$, and b) variable supplemental cross-sections $\tilde{C}_j(s)$ - fixed intervals $\Delta_j = \text{constant}$.

SLW model, reference approach

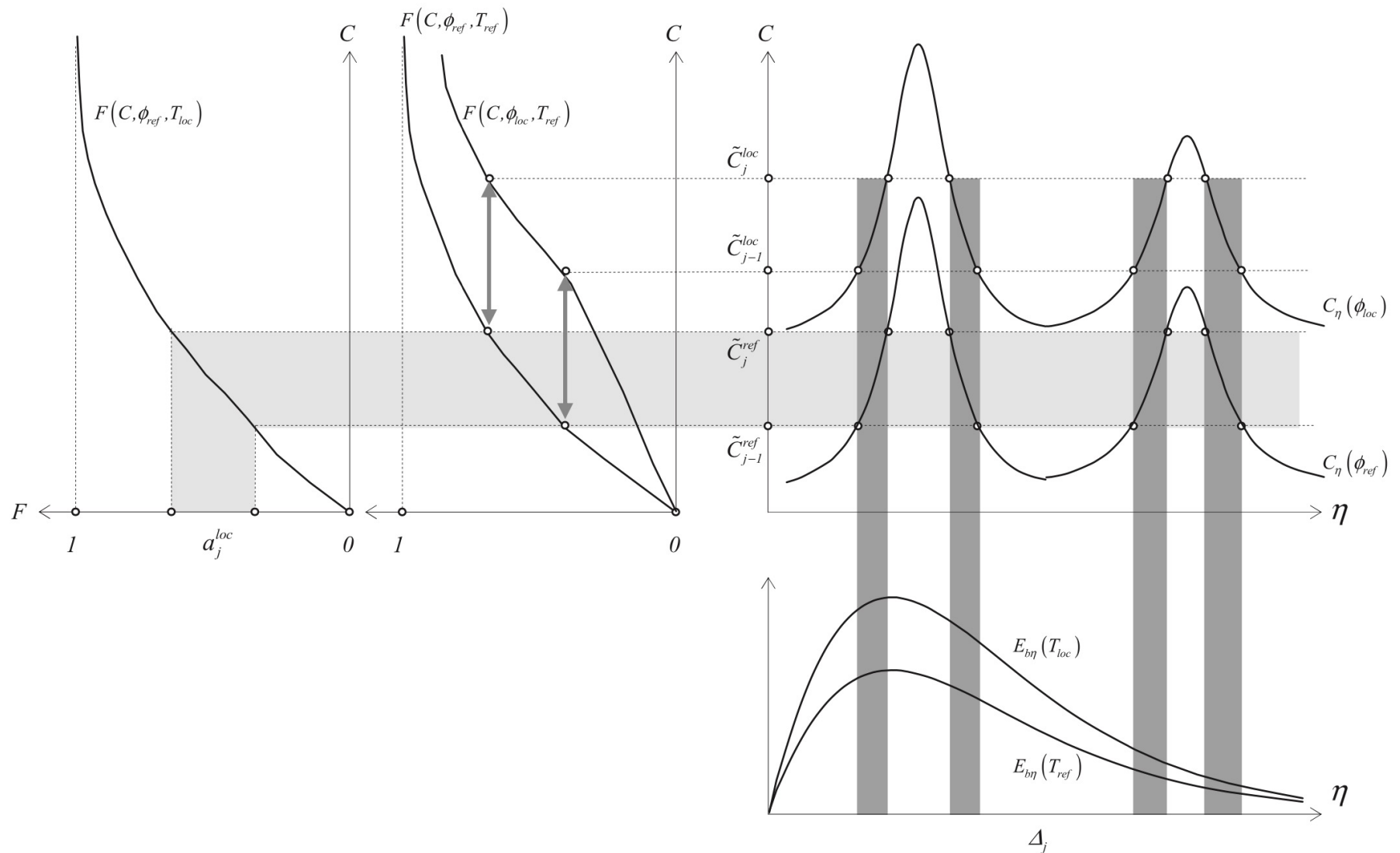


Fig. 3. Geometrical interpretation of the SLW reference approach.

Rank Correlation

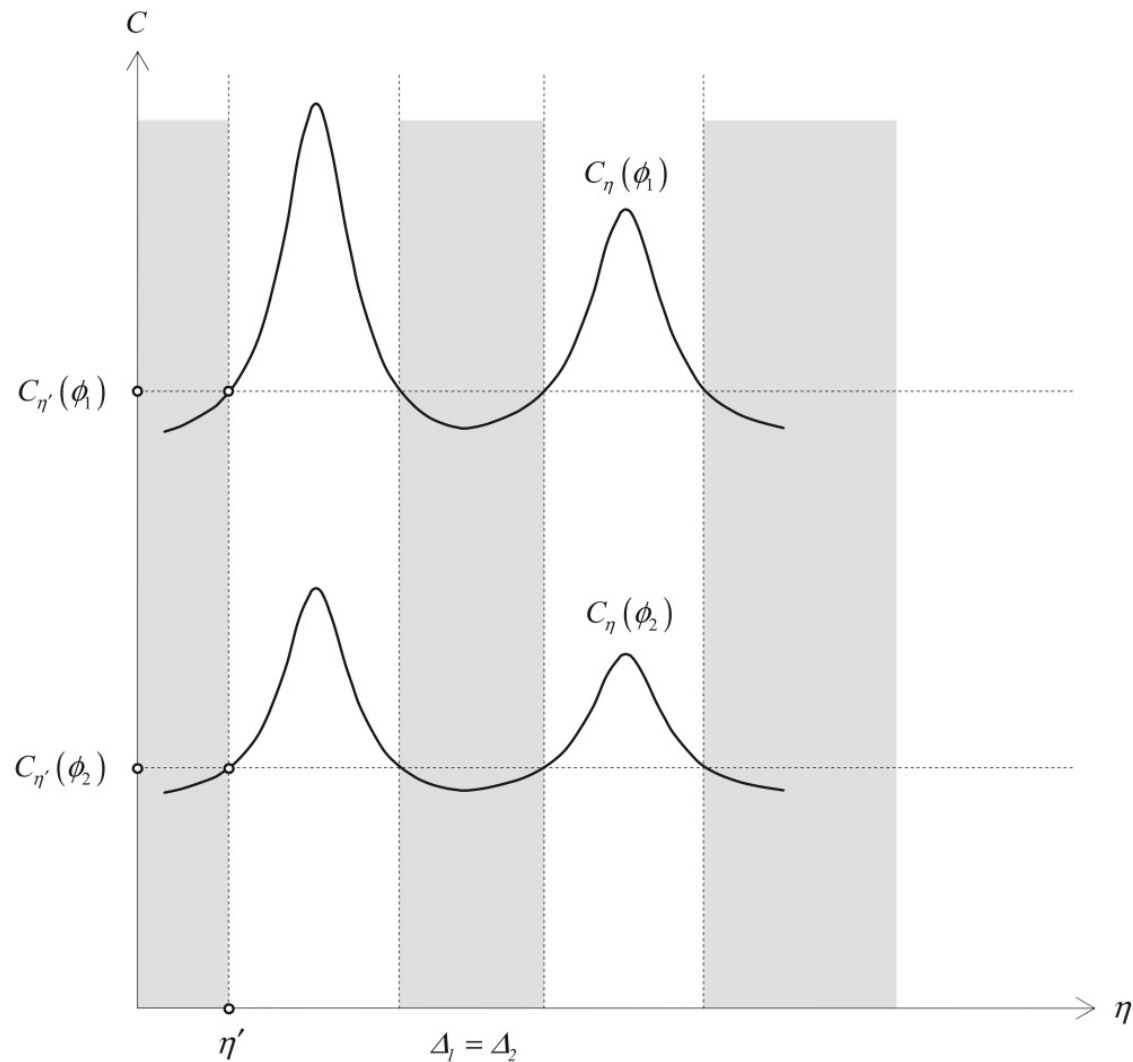


Fig. 4. Rank correlated gas absorption cross-section $C_\eta(\phi)$ at two different thermodynamic states ϕ_1 and ϕ_2 .

Discrete Ordinates

TABLE 17.1

Discrete ordinates for the S_N -approximation ($N = 2, 4, 6, 8$), from [19].

Order of Approximation	Ordinates			Weights w
	ξ	η	μ	
S_2 (symmetric)	0.5773503	0.5773503	0.5773503	1.5707963
S_2 (nonsymmetric)	0.5000000	0.7071068	0.5000000	1.5707963
S_4	0.2958759	0.2958759	0.9082483	0.5235987
	0.2958759	0.9082483	0.2958759	0.5235987
	0.9082483	0.2958759	0.2958759	0.5235987
S_6	0.1838670	0.1838670	0.9656013	0.1609517
	0.1838670	0.6950514	0.6950514	0.3626469
	0.1838670	0.9656013	0.1838670	0.1609517
	0.6950514	0.1838670	0.6950514	0.3626469
	0.6950514	0.6950514	0.1838670	0.3626469
	0.9656013	0.1838670	0.1838670	0.1609517
S_8	0.1422555	0.1422555	0.9795543	0.1712359
	0.1422555	0.5773503	0.8040087	0.0992284
	0.1422555	0.8040087	0.5773503	0.0992284
	0.1422555	0.9795543	0.1422555	0.1712359
	0.5773503	0.1422555	0.8040087	0.0992284
	0.5773503	0.5773503	0.5773503	0.4617179
	0.5773503	0.8040087	0.1422555	0.0992284
	0.8040087	0.1422555	0.5773503	0.0992284
	0.8040087	0.5773503	0.1422555	0.0992284
	0.9795543	0.1422555	0.1422555	0.1712359