Ch1. #19

(a) This result was conjectured by F. J. Dyson in 1962 and proved that same year by J. Gunson and K. Wilson. The elegant proof given here is due to I. J. Good in 1970. For further information and references, see [1.3, pp. 377–387].

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is a black interval of G_{m_s} or else there is a black interval of G_{m_s} whose end points lie in (P, P_1) and (Q, Q_1) respectively.

Doing this with each black interval $\geqslant \epsilon$ of Γ, we determine an integer m_s such that the sum of those black intervals of G_{m_s} which are led up to by all the black intervals of Γ which are $\geqslant \epsilon$ differs from the sum of the latter black intervals by less than σ.

As in § 12, *loc. cit.*, however, G_{m_s} may have other black intervals $\geqslant \epsilon$; but these can be disposed of and the proof completed precisely as was done there for the closed G.

4. Thus, if I and I_s be the contents of Γ and G_{m_s} respectively, and $R(\epsilon)$ and $R_s(\epsilon)$ be the sums of those black intervals of Γ and G_{m_s} respectively which are $< \epsilon$, we have

$$I - I_s - R_s(\epsilon) + R(\epsilon) < \sigma.$$

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