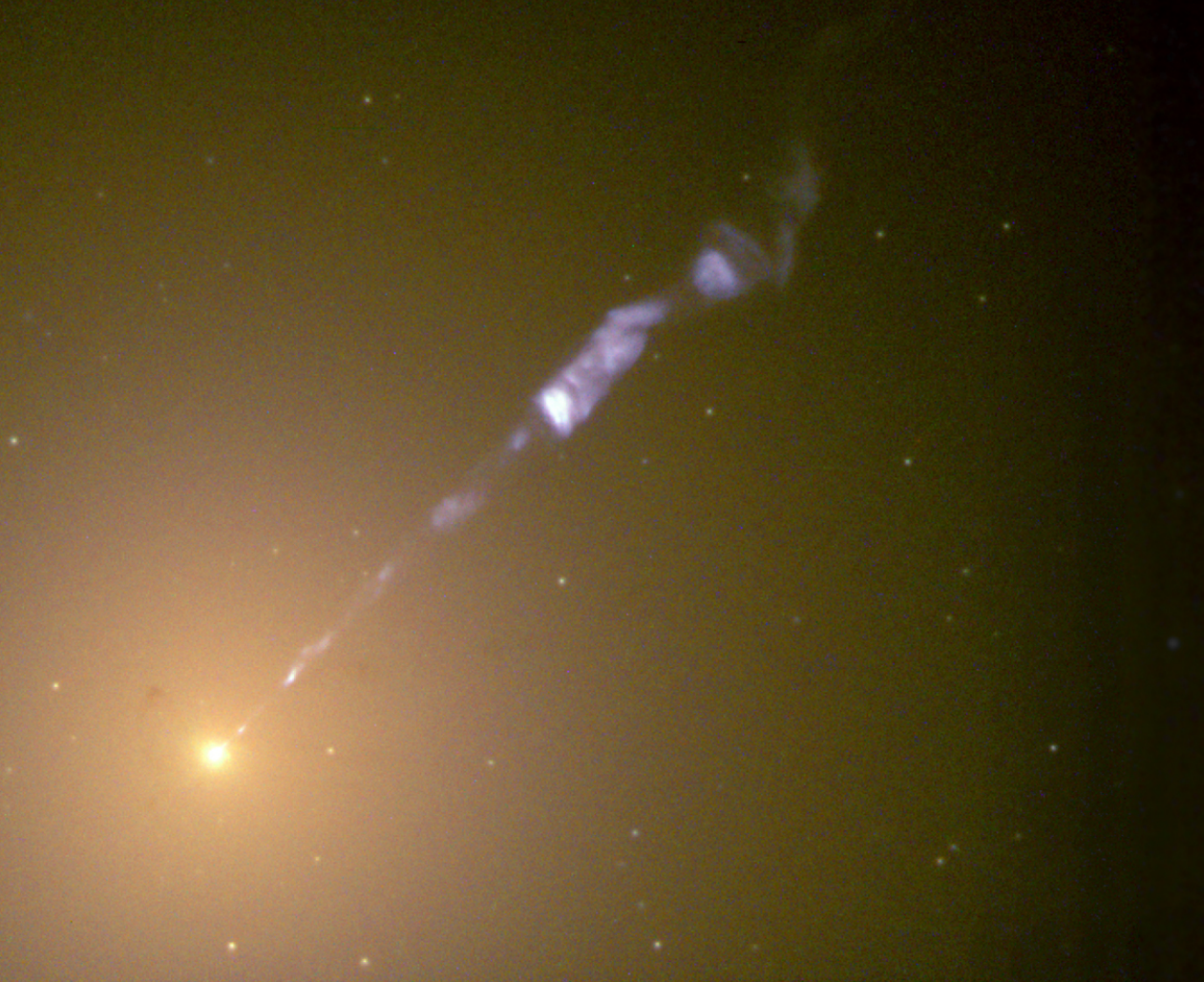


# On the Matter Content of Astrophysical Jets

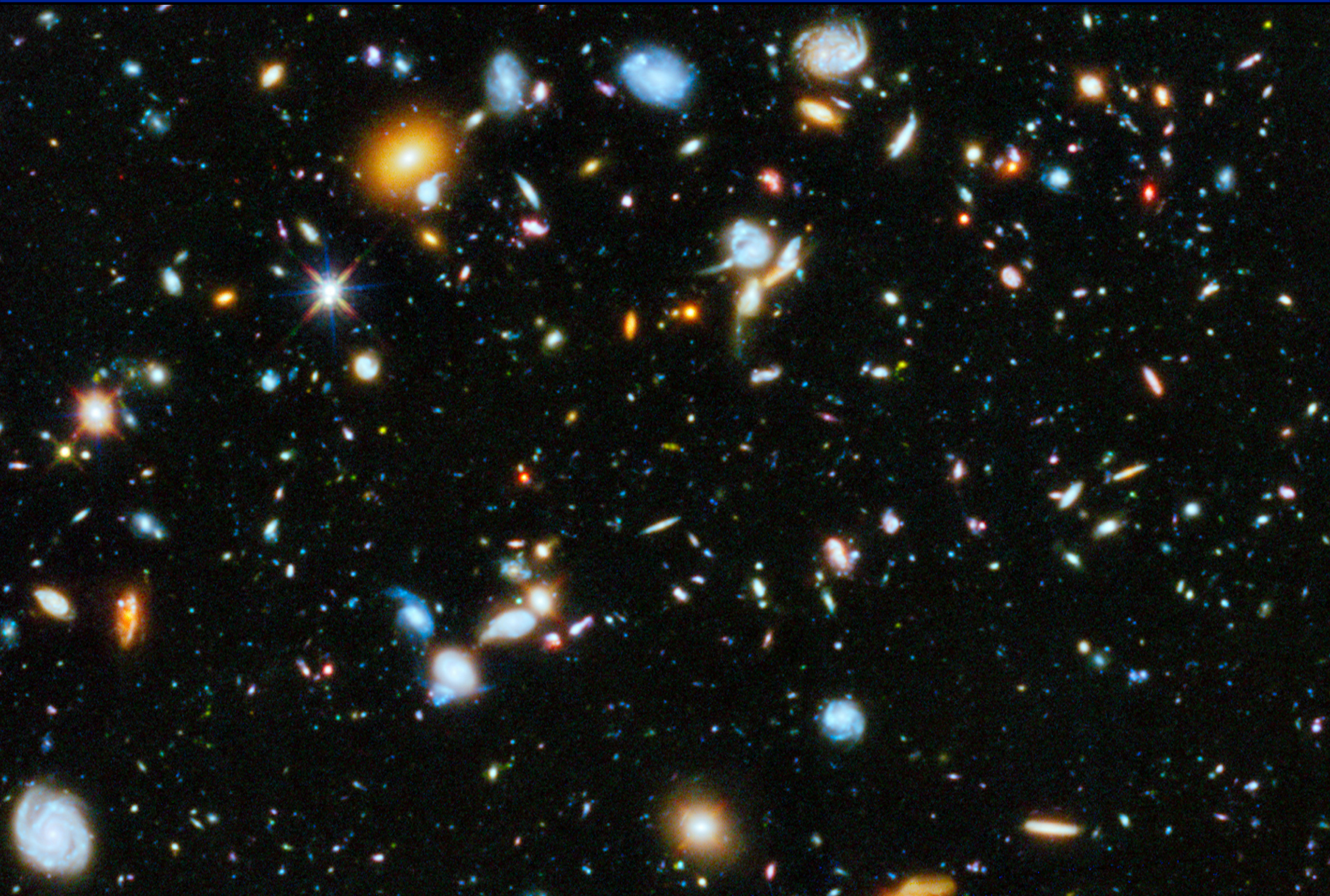
Eugenio Bottacini (University of Padova - Italy)









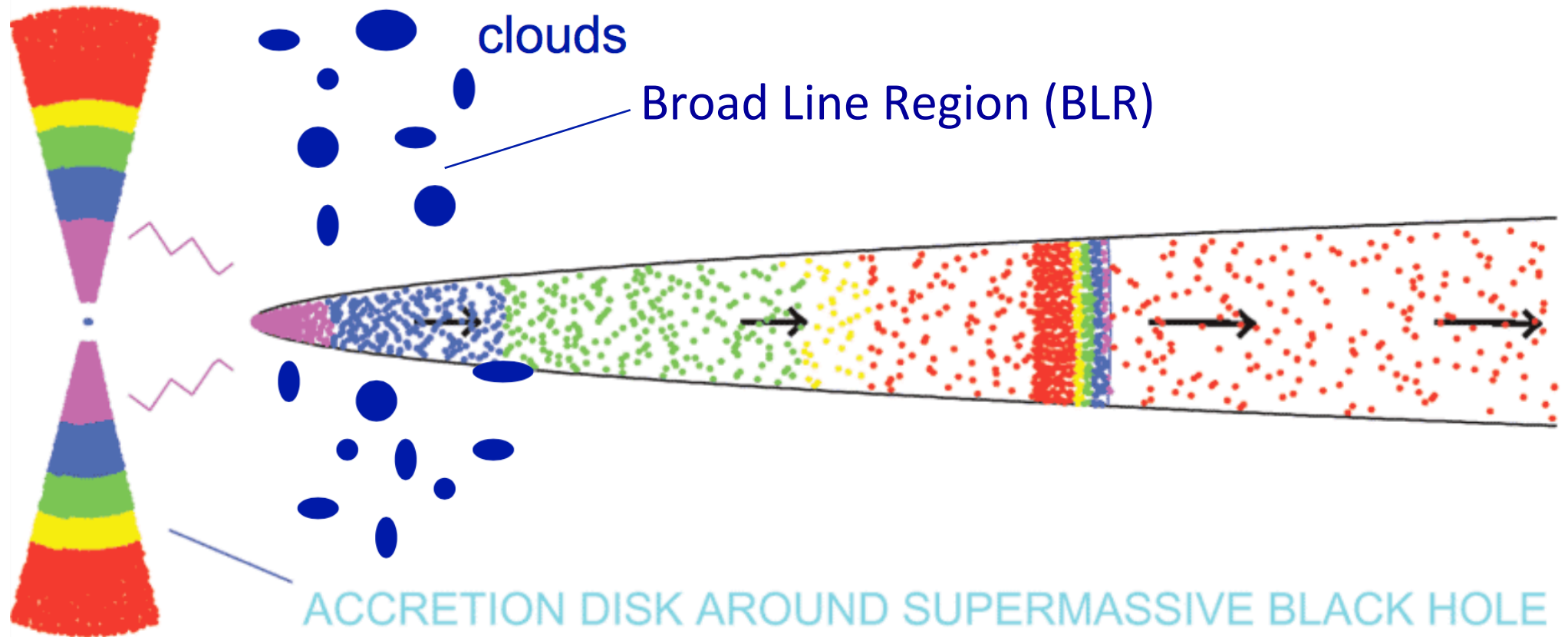






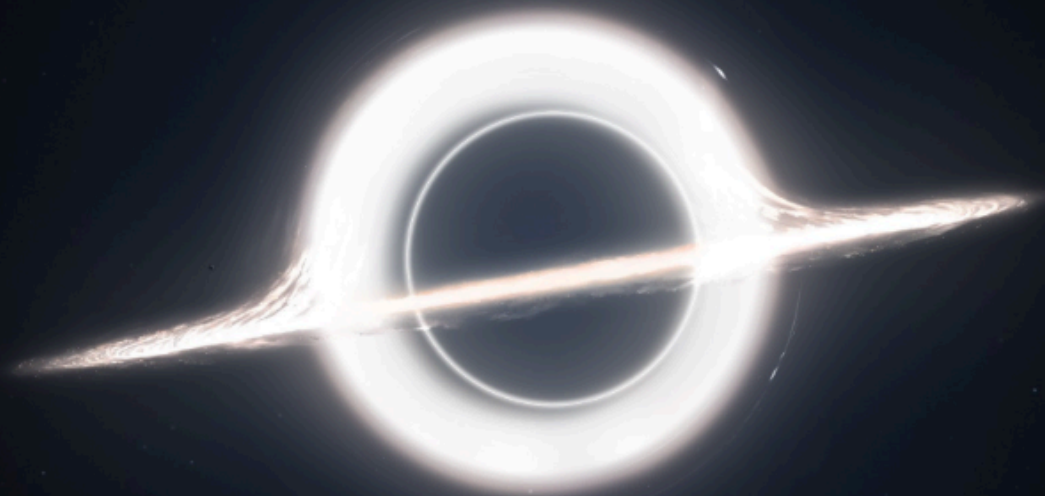


# BLAZAR JET



Marscher 2002







# Integral

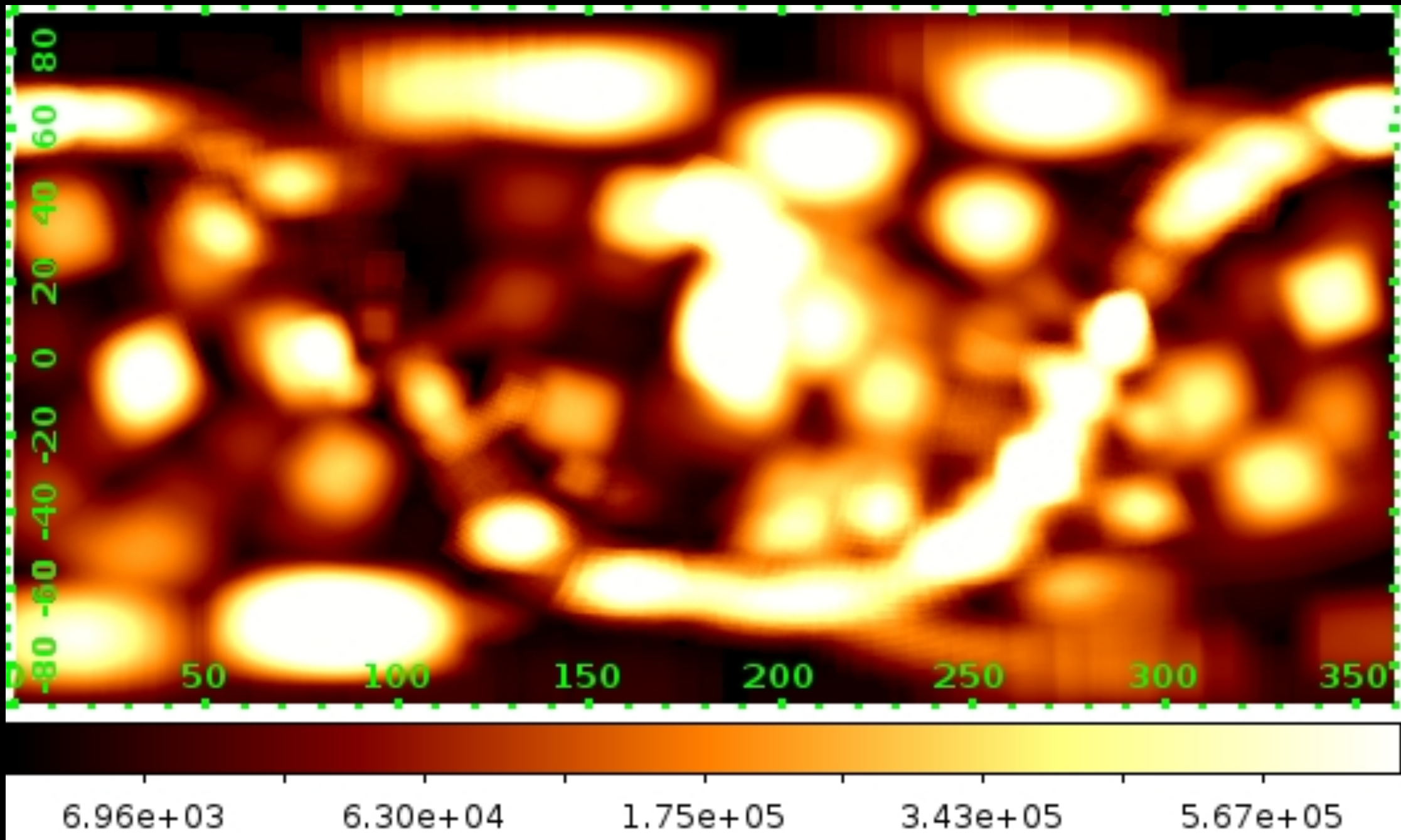


European Space Agency



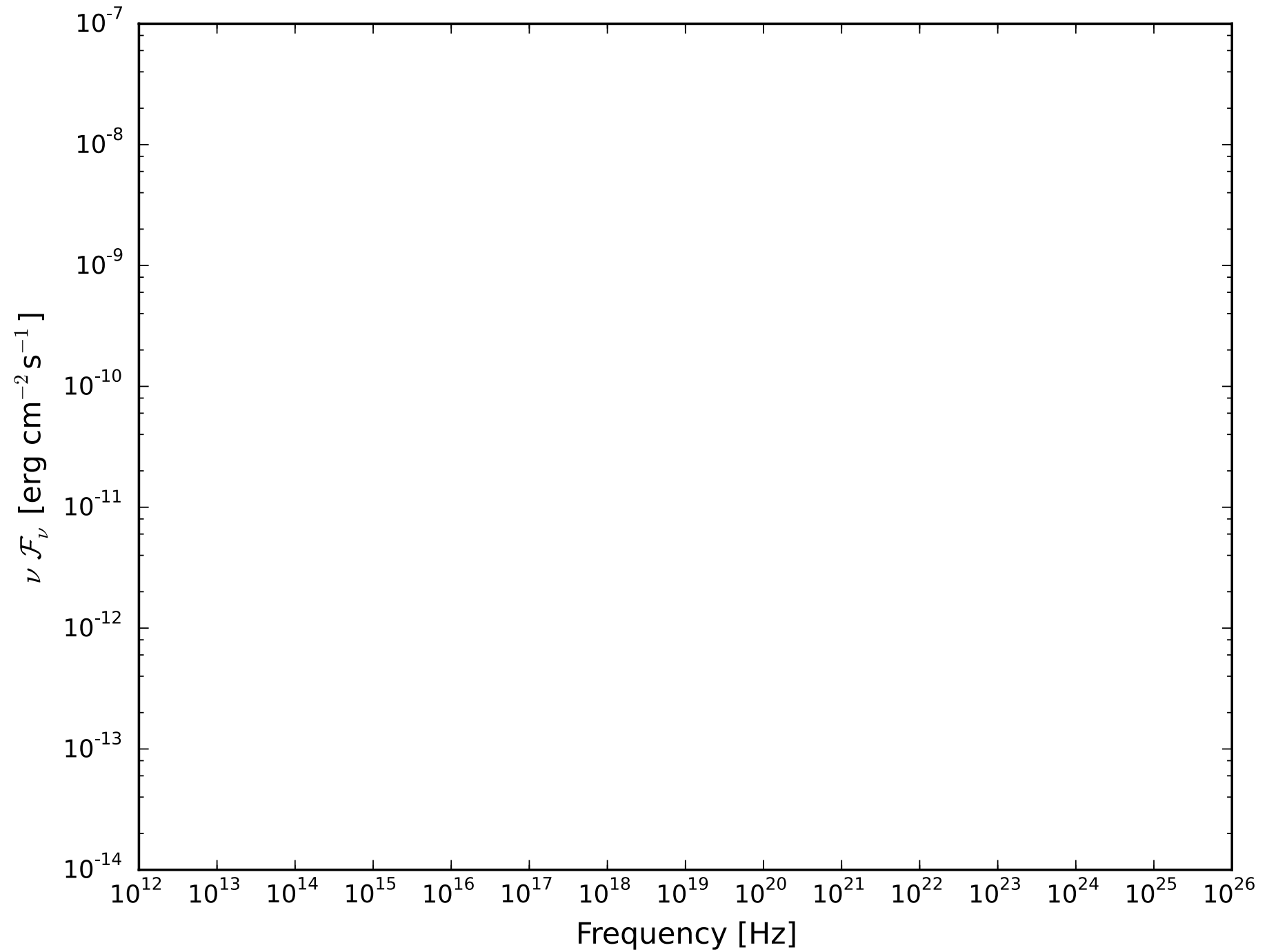


# INTEGRAL Exposure Map



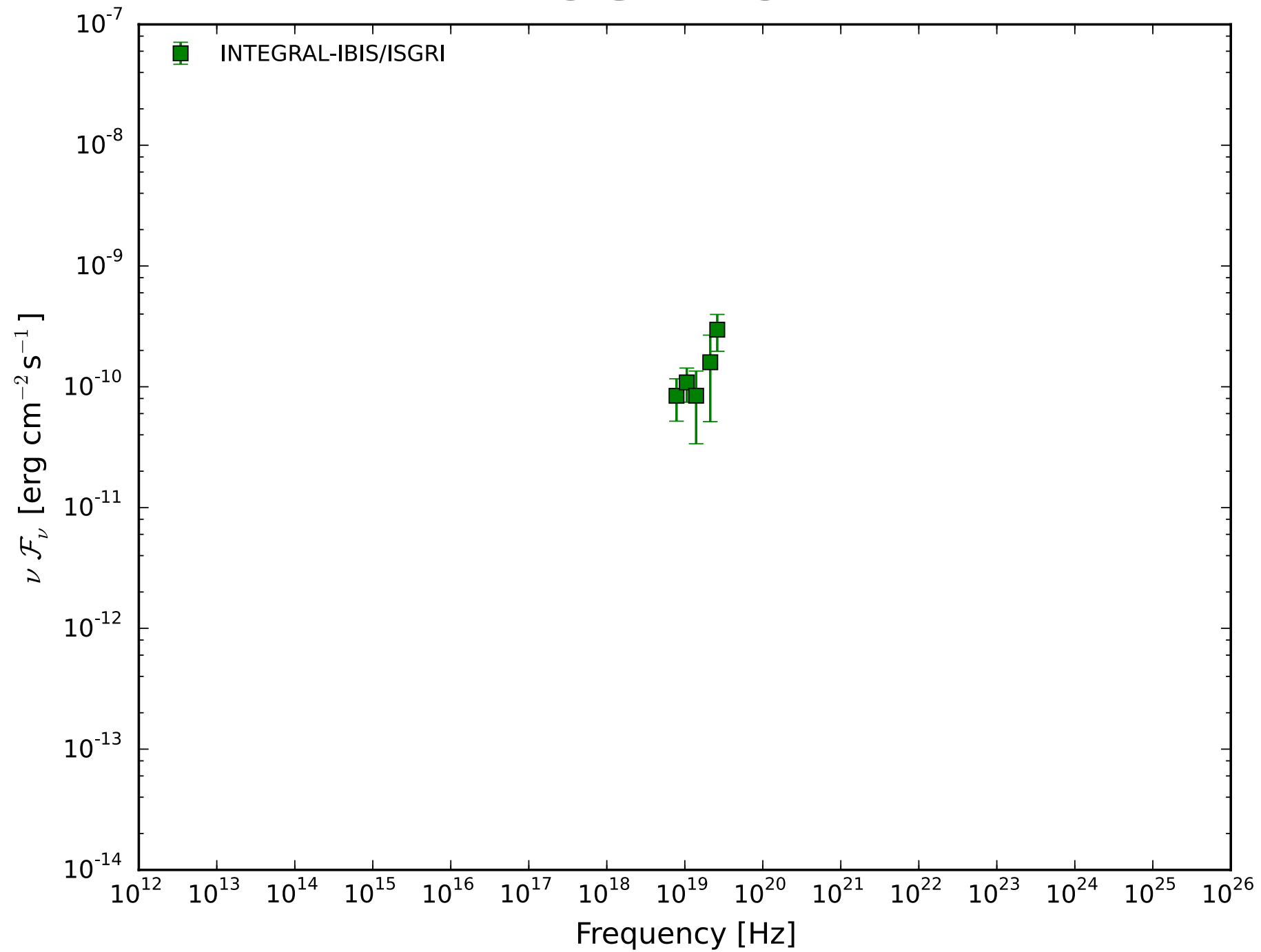


# 3C 279



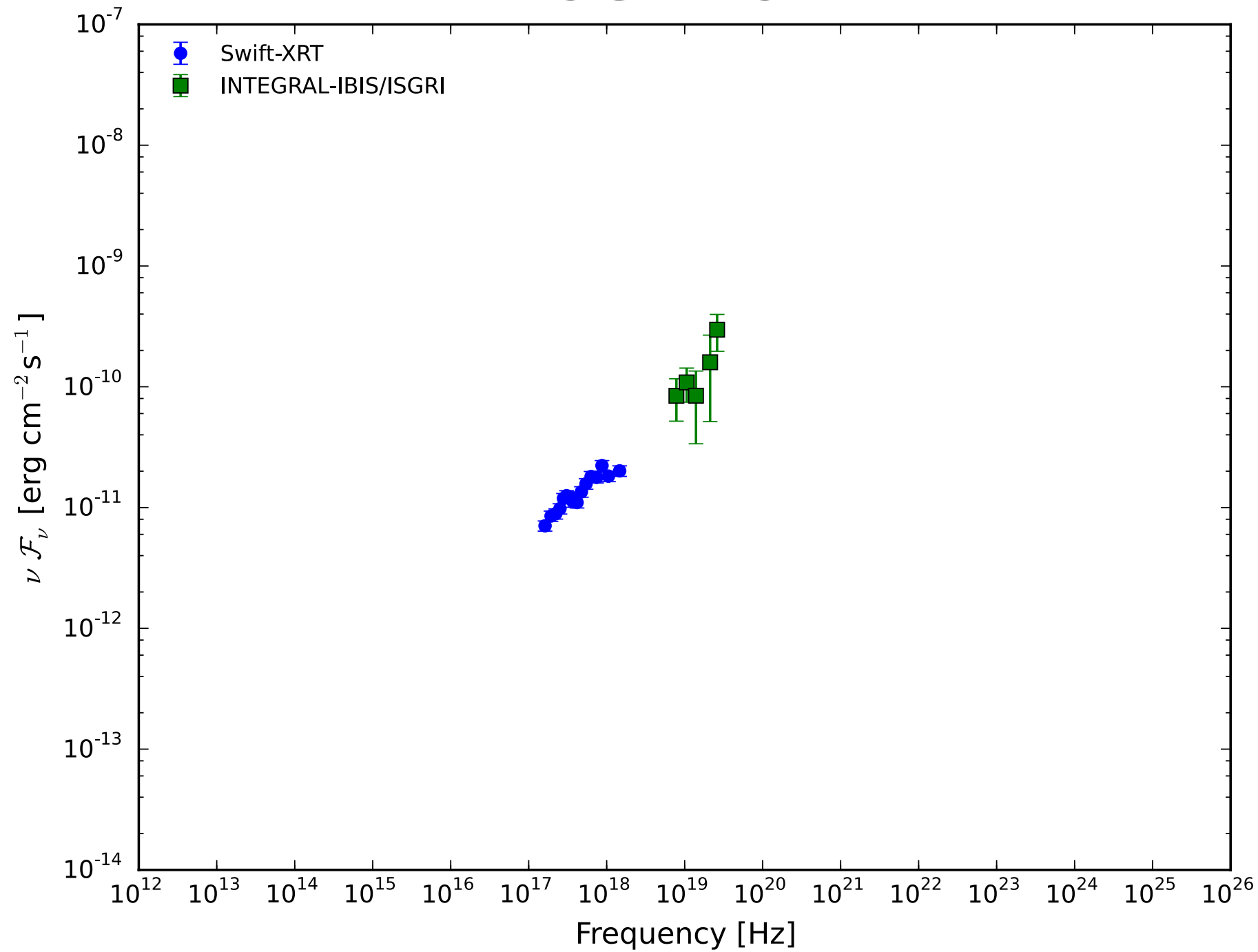


## 3C 279

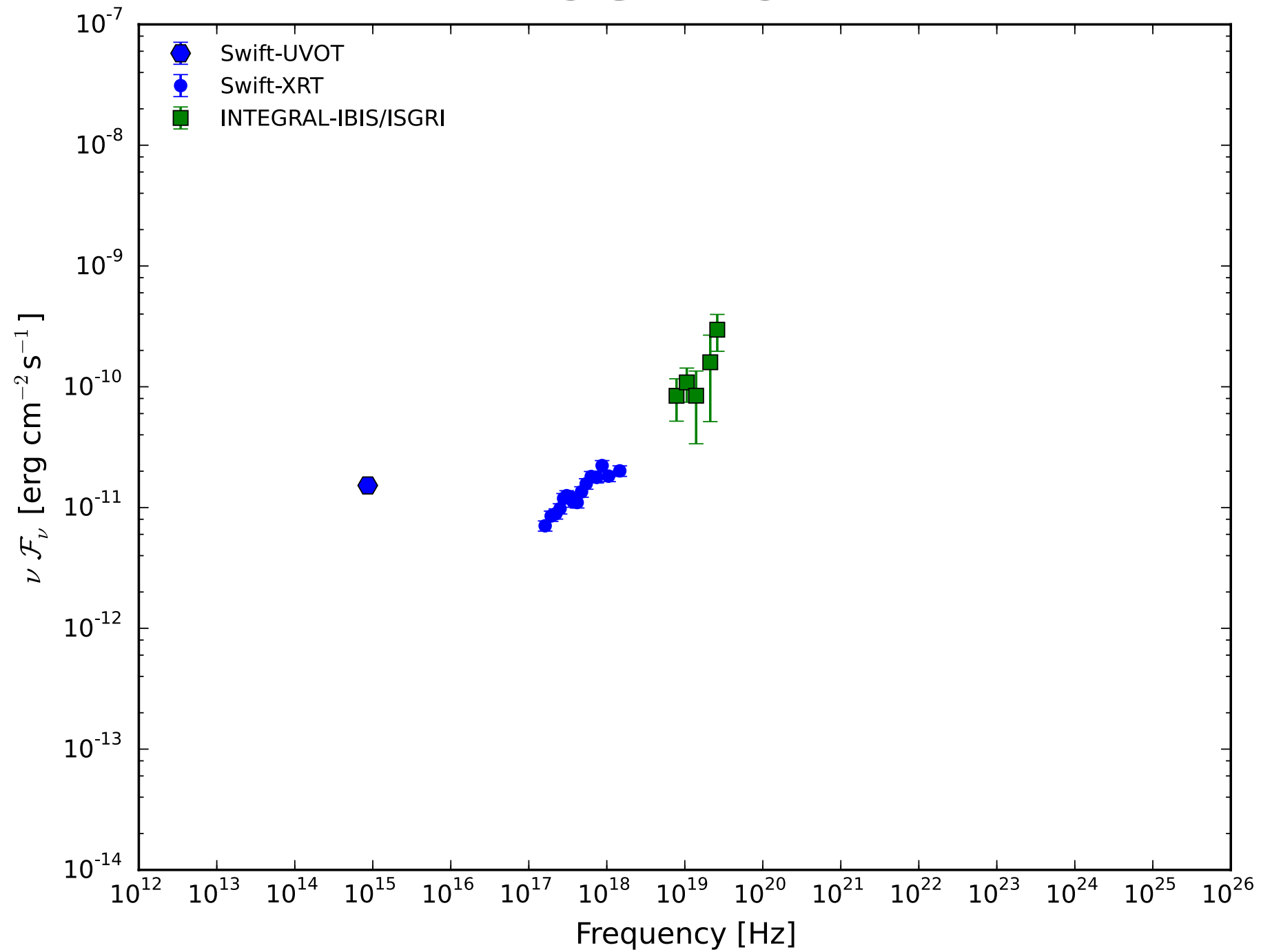




## 3C 279

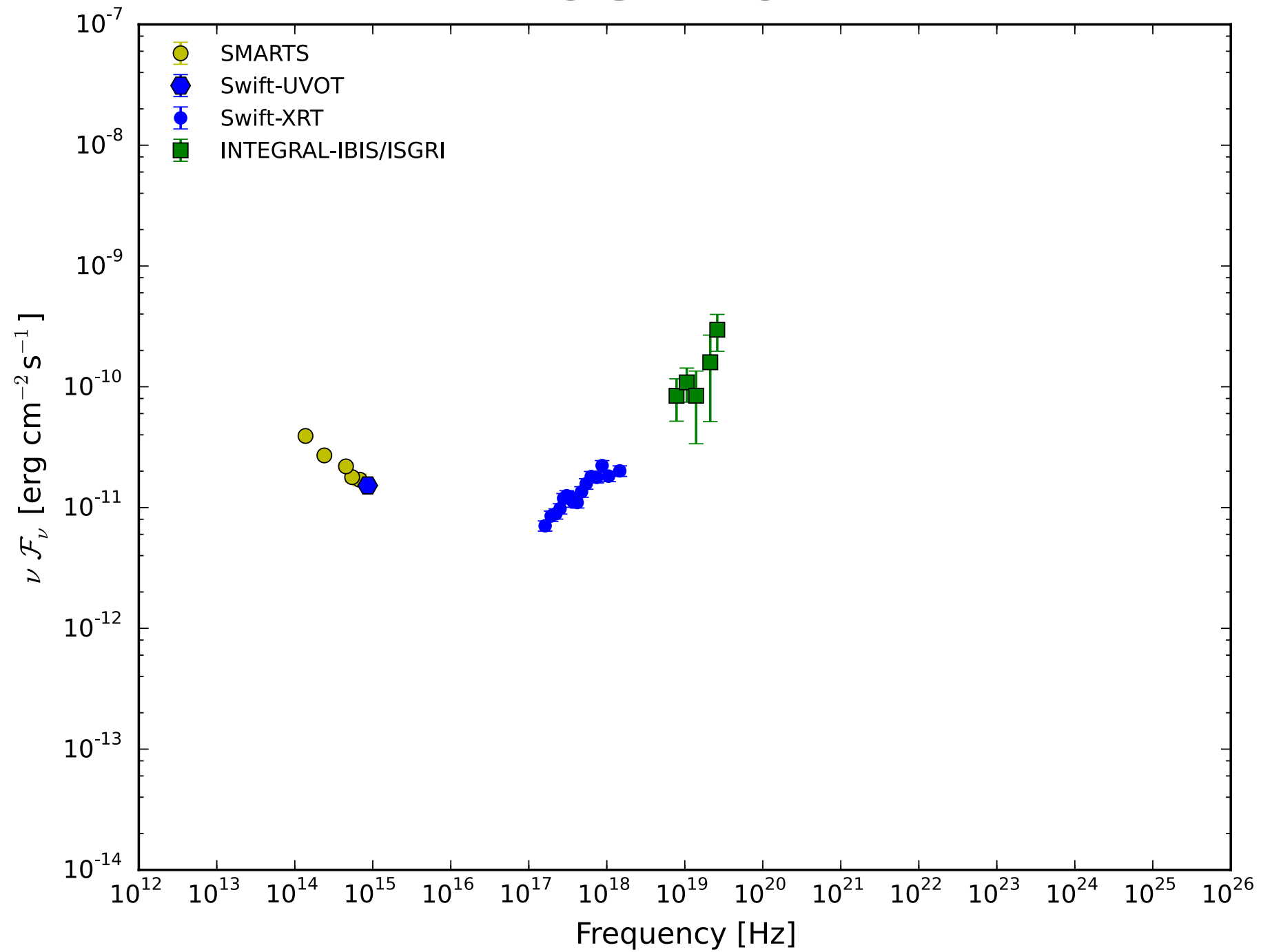


## 3C 279

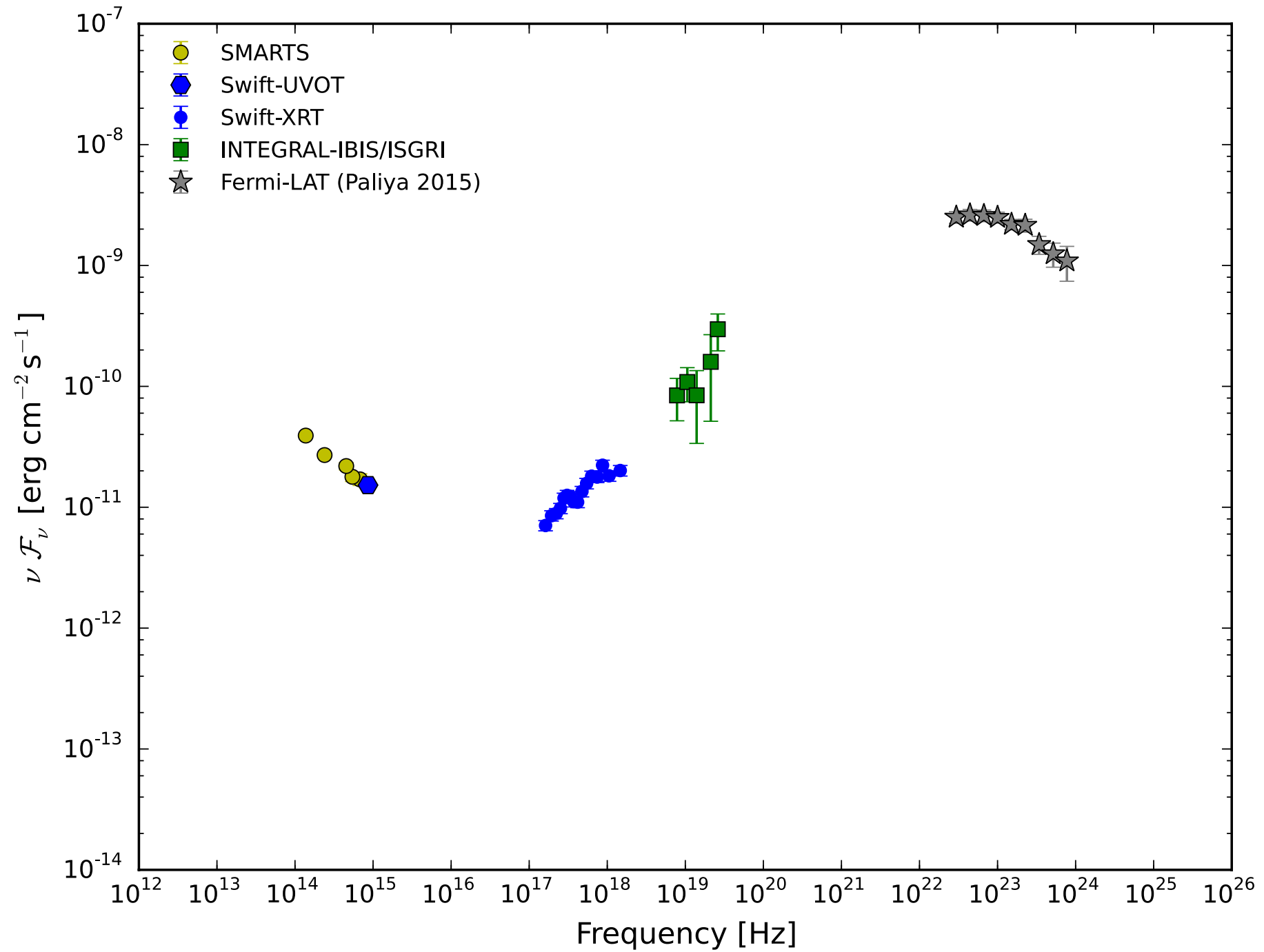




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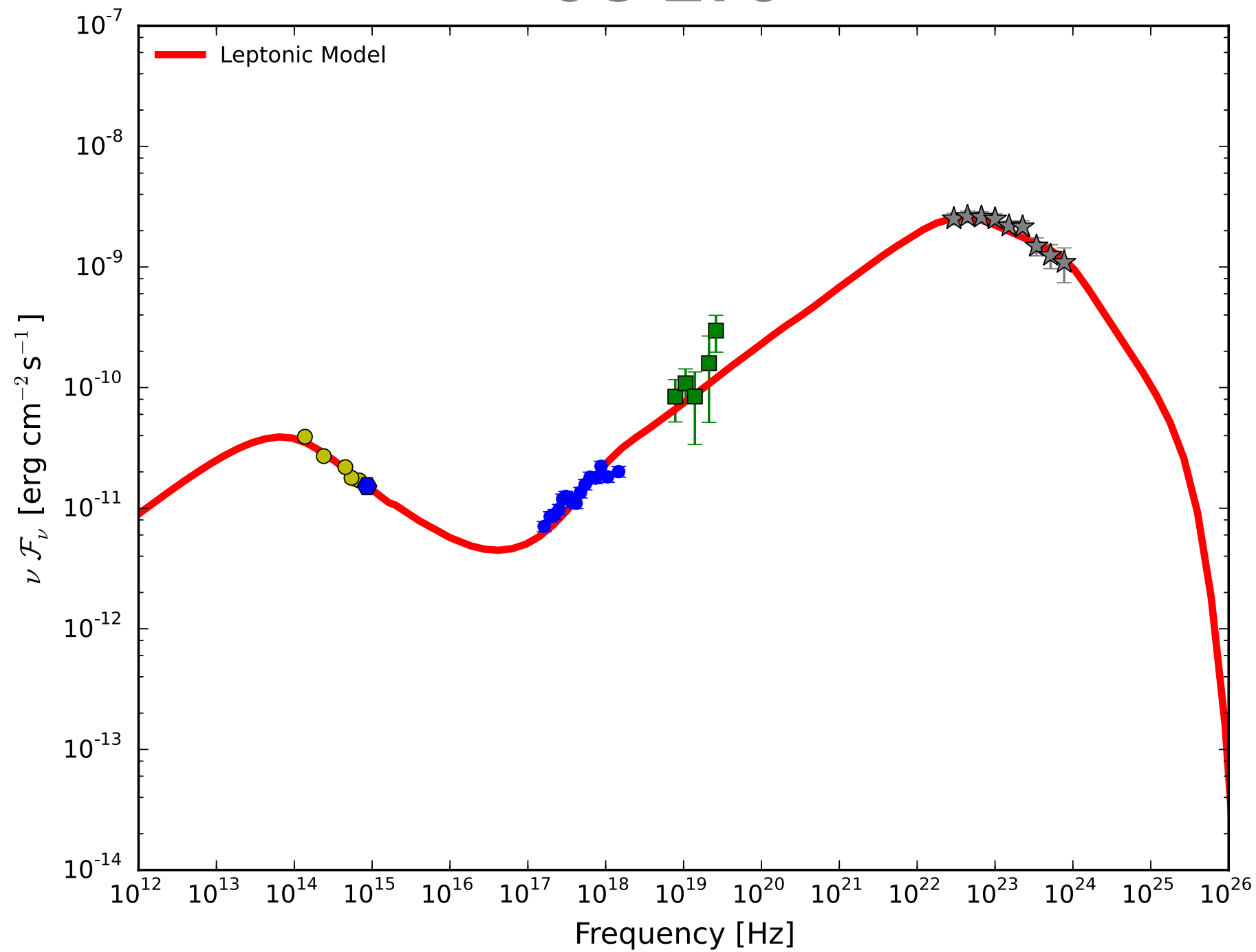


## 3C 279

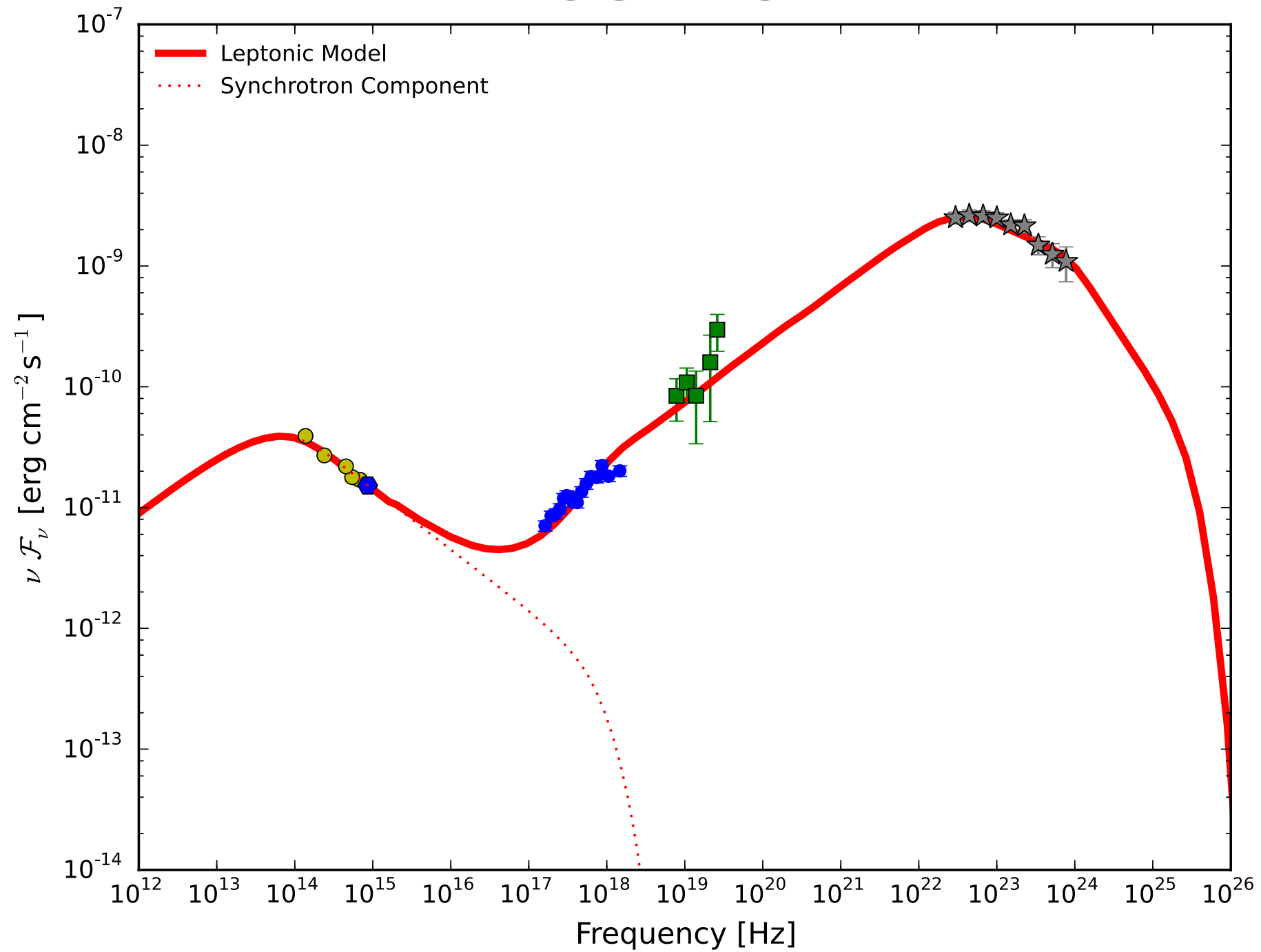




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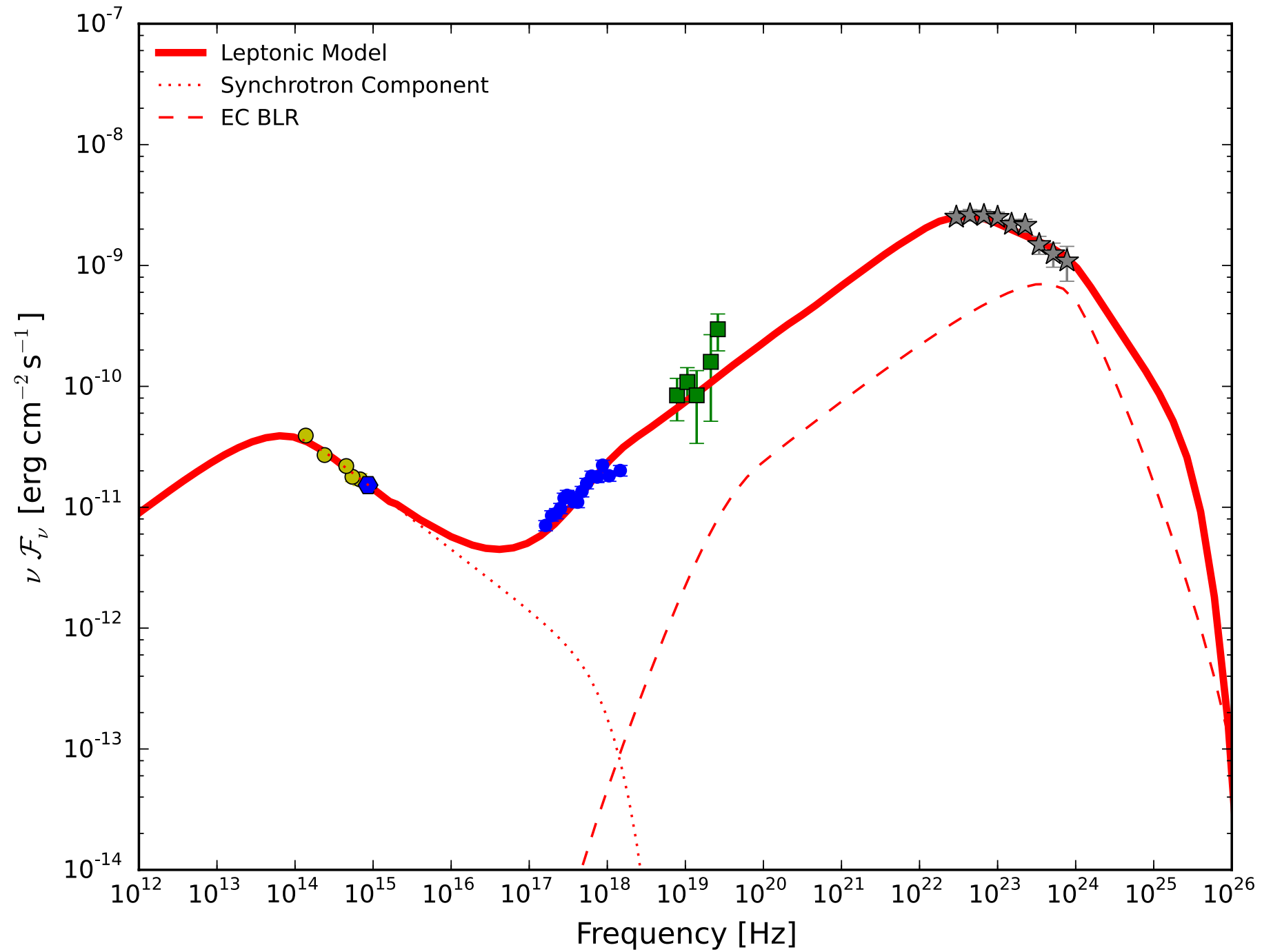


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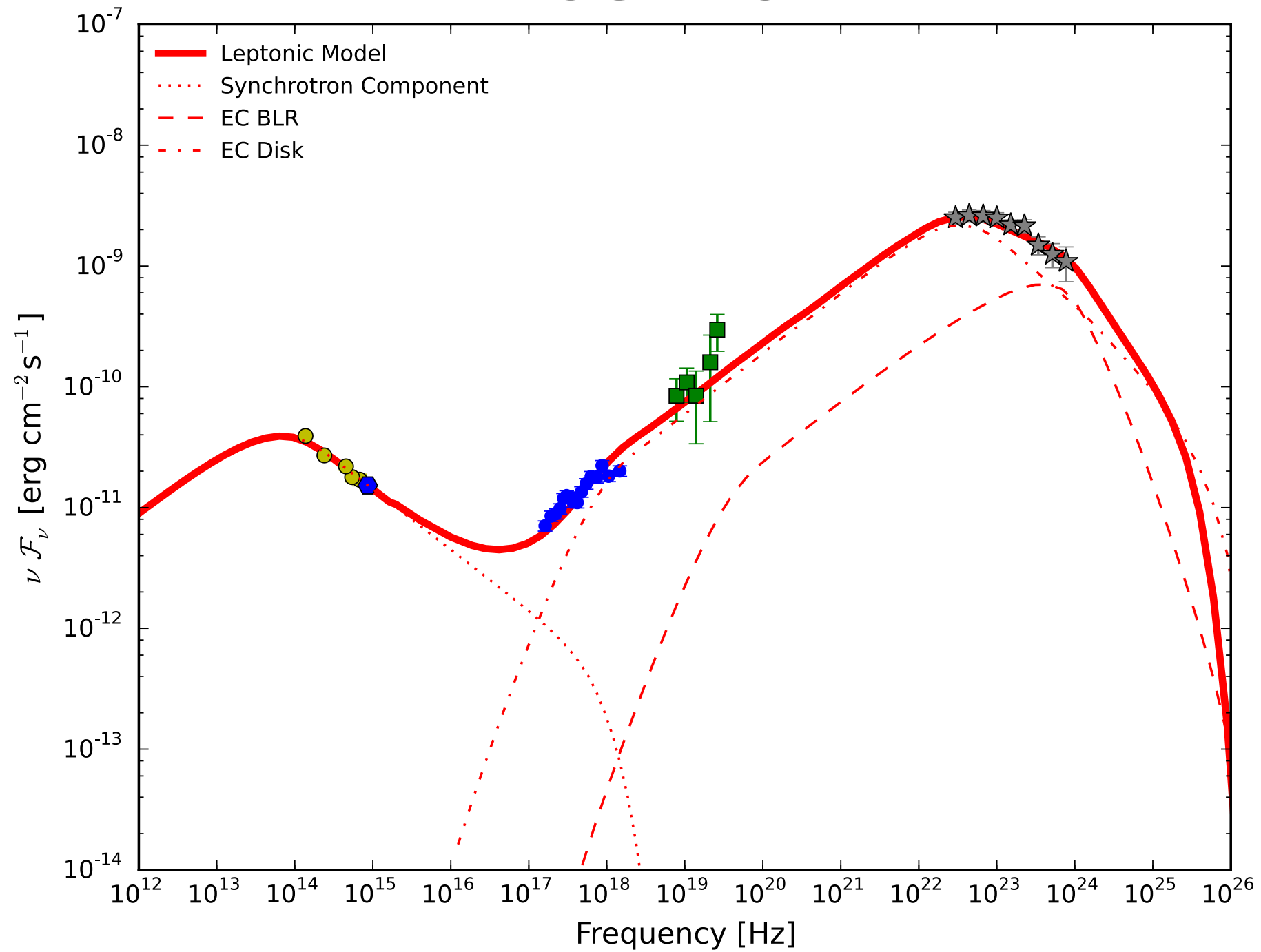




## 3C 279

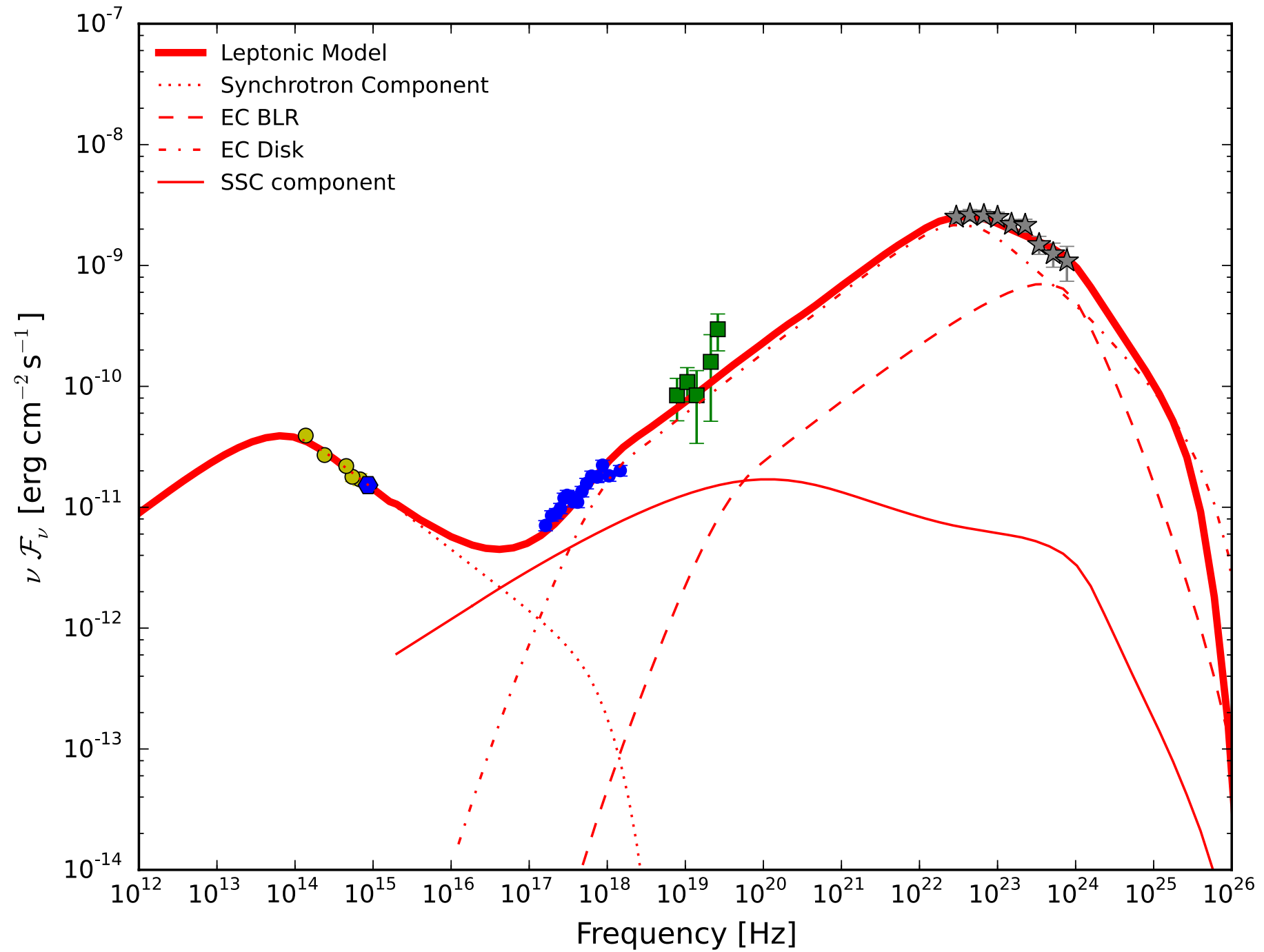


## 3C 279

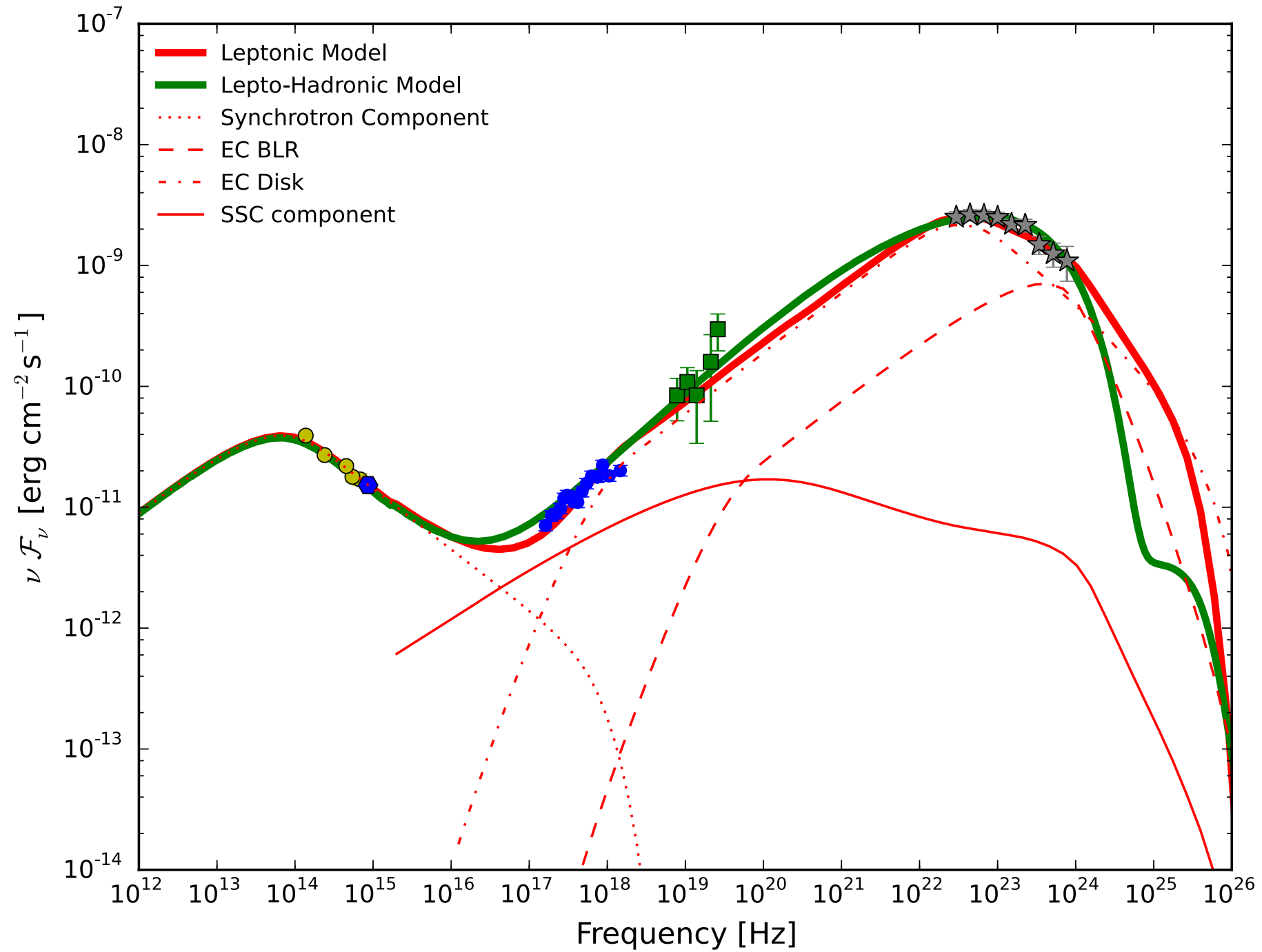




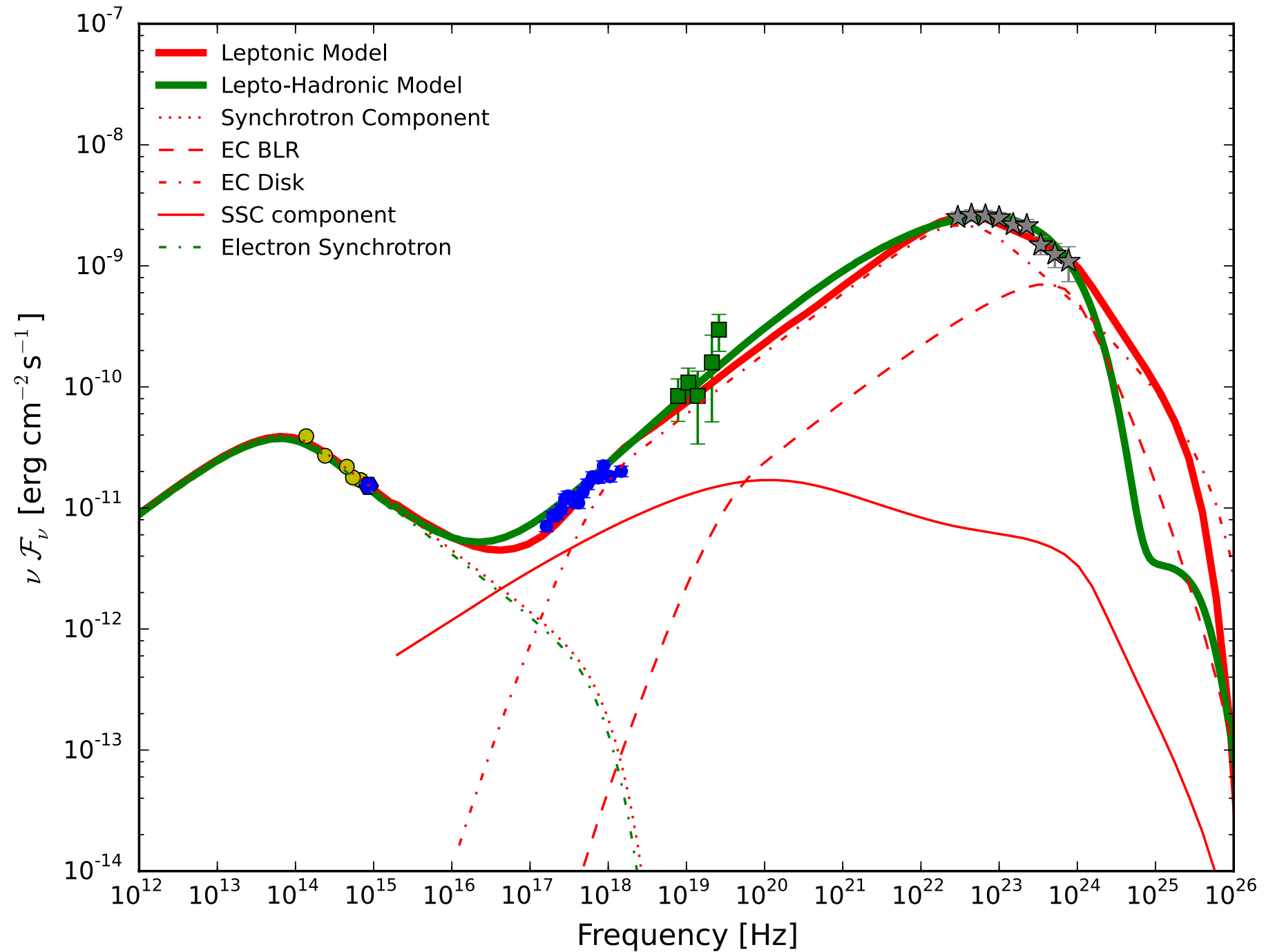
## 3C 279



## 3C 279

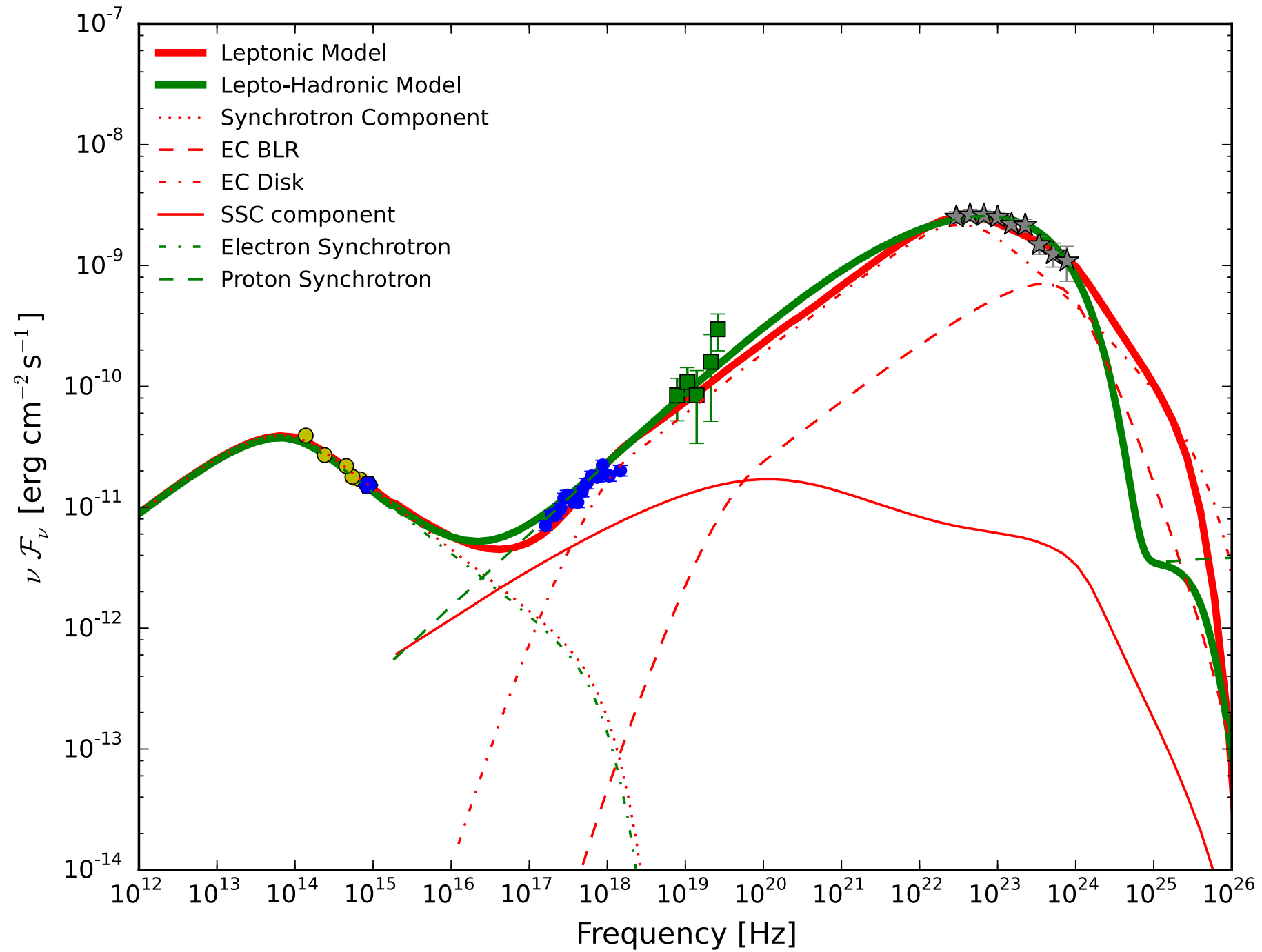


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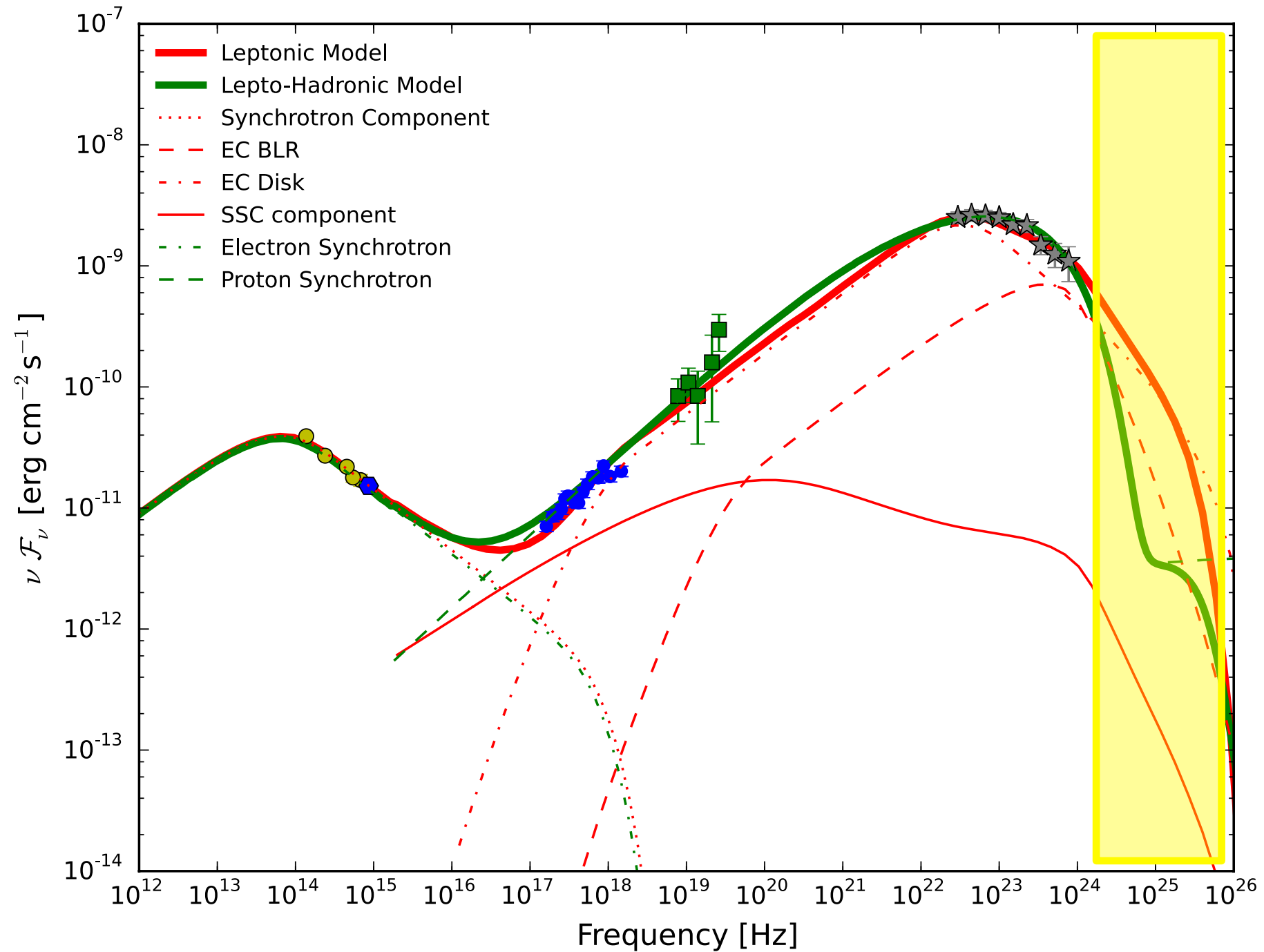




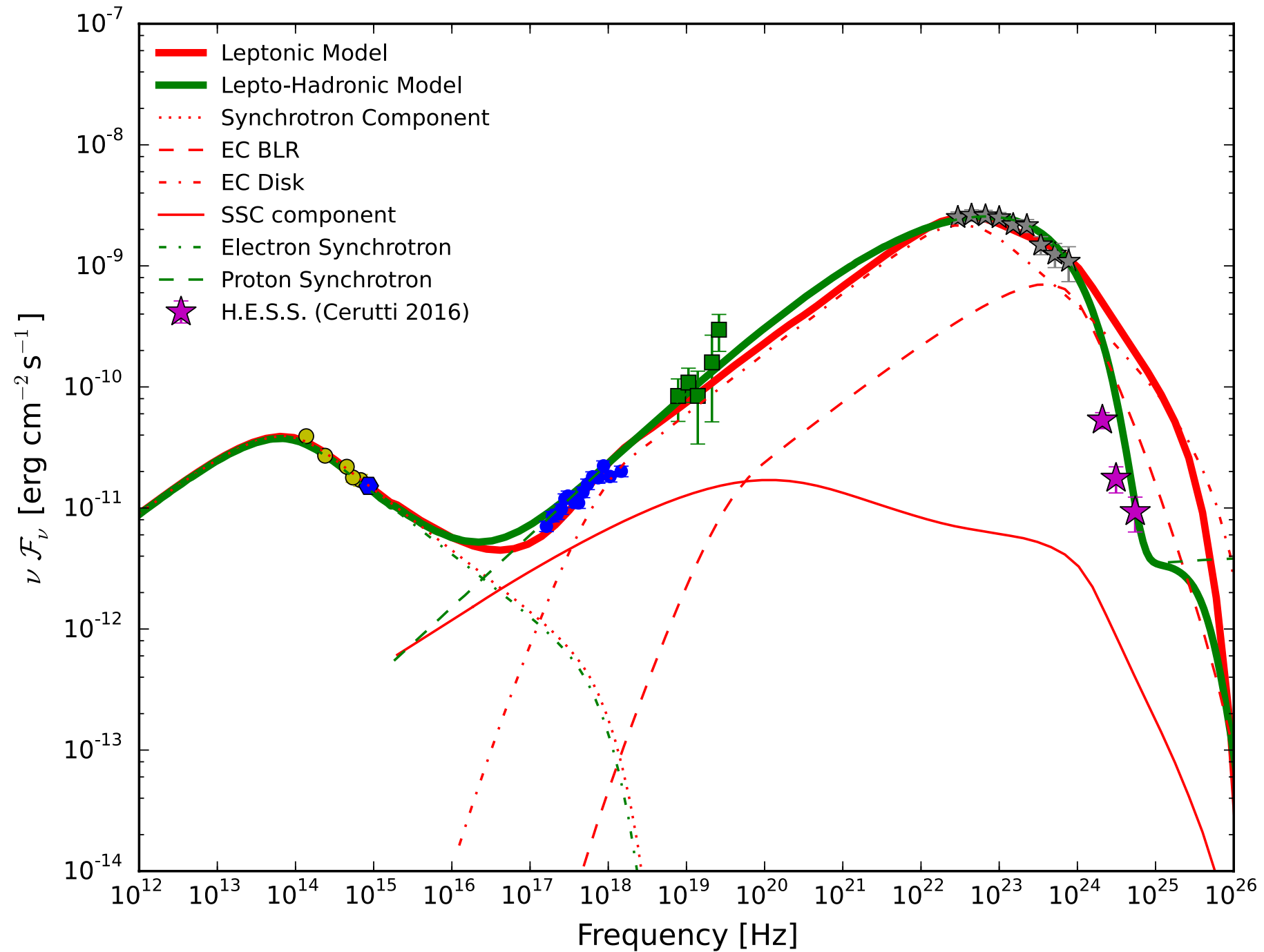
## 3C 279



## 3C 279

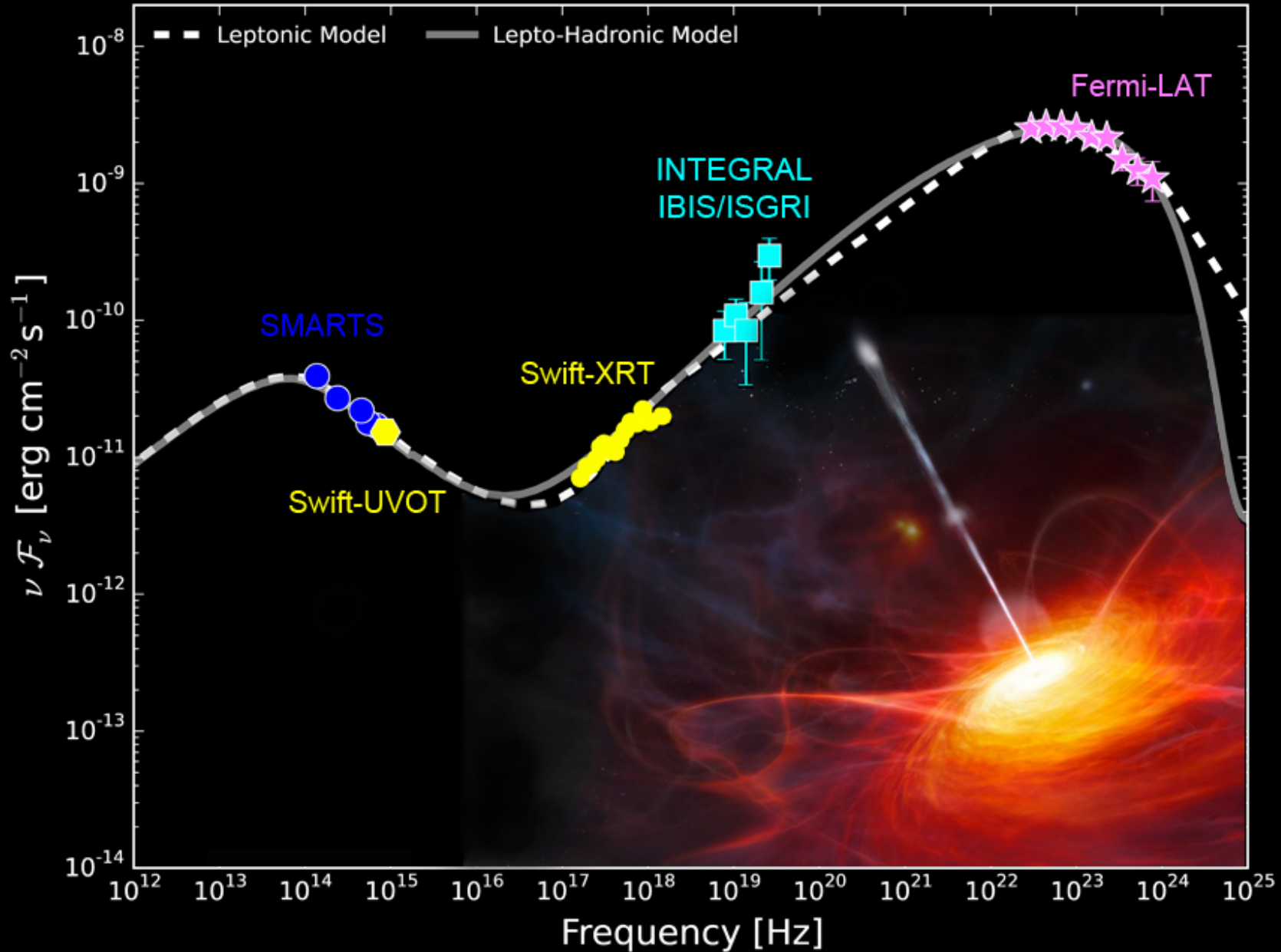


## 3C 279





# Conclusions



**Bottacini et al. (2016, ApJ, 832, 17)**

# Model parameters

List of Parameters from SED Modeling

Model (1)	$R$ (2)	$\eta_{\text{esc}}$ (3)	$B$ (4)	$\Gamma$ (5)	$\gamma_{\text{min}}$ (6)	$\gamma_{\text{max}}$ (7)	$q$ (8)	$\gamma_{\text{pmin}}$ (9)	$\gamma_{\text{pmax}}$ (10)	$q_{\text{p}}$ (11)
Leptonic	1	7	1	20	$1 \times 10^3$	$1 \times 10^5$	3	...	...	...
Lepto-hadronic	1	1	100	20	$1 \times 10^2$	$1 \times 10^4$	3	$1 \times 10^3$	$6 \times 10^8$	1.8