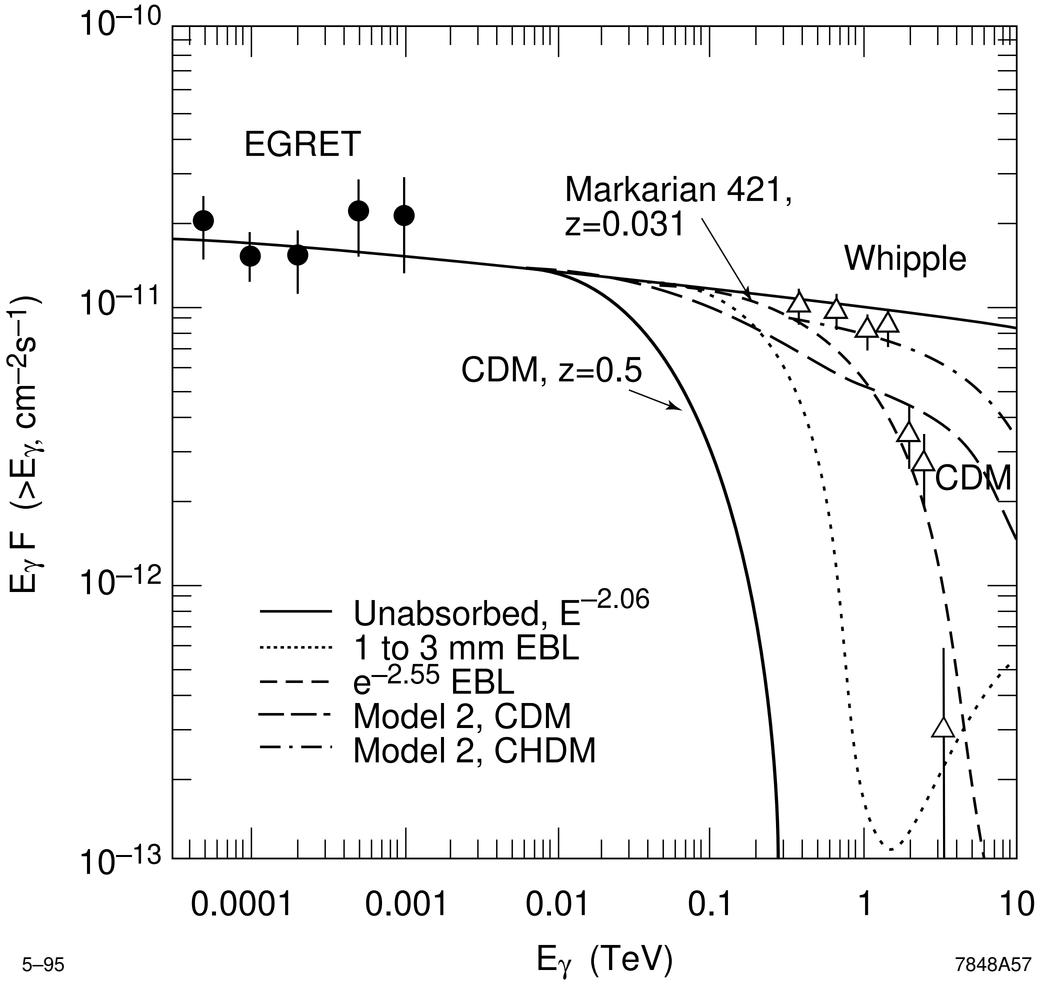
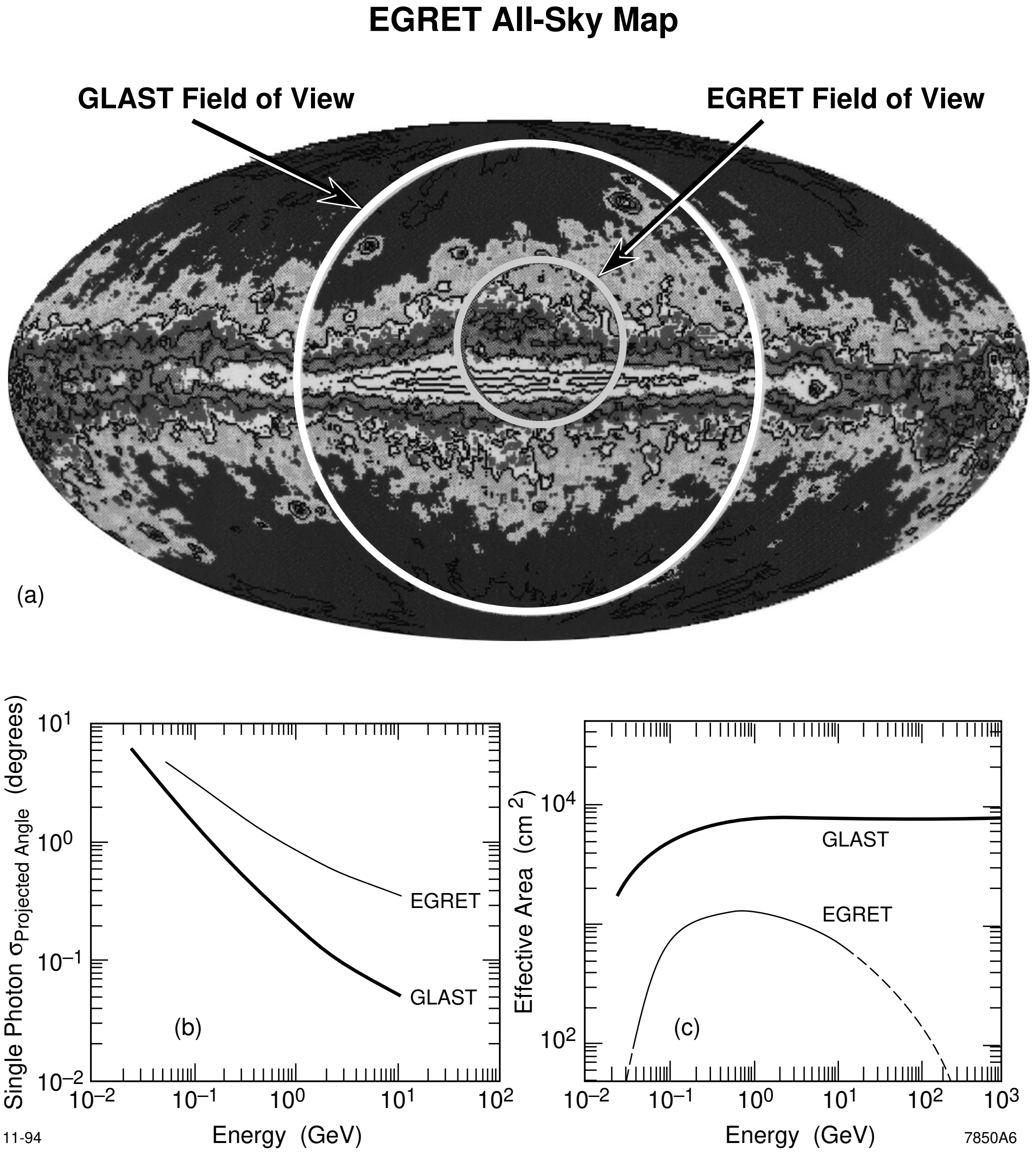
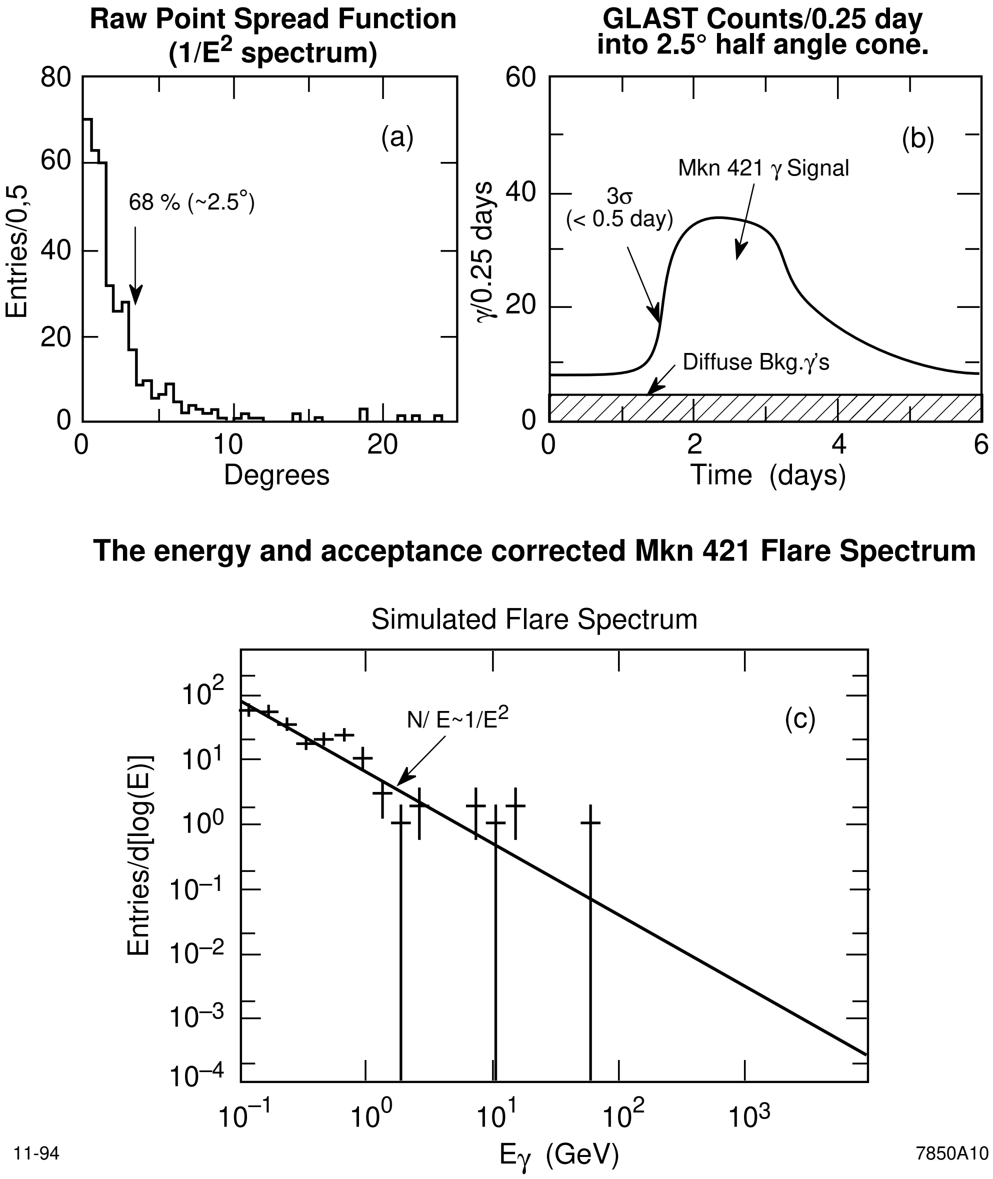
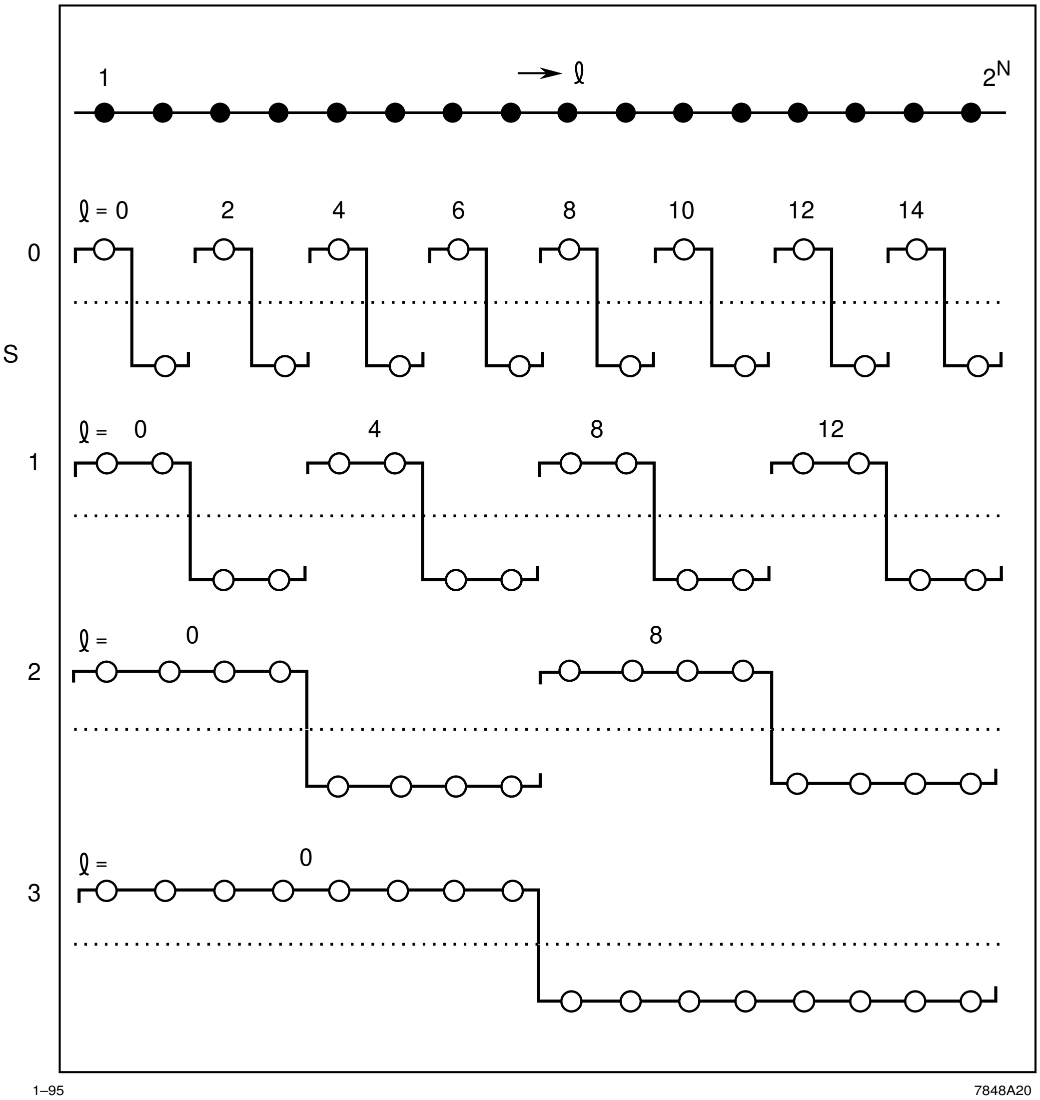

EGRET
Markarian 421,
z=0.031
Whipple
CDM, z=0.5
CDM
Unabsorbed, $E^{-2.06}$
1 to 3 mm EBL
$e^{-2.55}$ EBL
Model 2, CDM
Model 2, CHDM
10^{-10}
10^{-11}
10^{-12}
10^{-13}
0.0001
0.001
0.01
0.1
1
10
$E_\gamma F$ ($>E_\gamma$, $cm^{-2}s^{-1}$)
E_γ (TeV)
5–95
7848A57


EGRET All-Sky Map
GLAST Field of View
EGRET Field of View
(a)
Single Photon σ Projected Angle (degrees)
EGRET
GLAST
(b)
Energy (GeV)
11-94
Effective Area (cm 2)
GLAST
EGRET
(c)
Energy (GeV)
7850A6


Raw Point Spread Function
(1/E2 spectrum)
(a)
68 % (~2.5°)
Entries/0,5
Degrees
GLAST Counts/0.25 day
into 2.5° half angle cone.
(b)
Mkn 421 γ Signal
3σ
(< 0.5 day)
Diffuse Bkg.γ's
γ/0.25 days
Time (days)
The energy and acceptance corrected Mkn 421 Flare Spectrum
Simulated Flare Spectrum
N/ E~1/E2
(c)
Entries/d[log(E)]
Eγ (GeV)
11-94
7850A10

7848A53 2–95


1
ℓ
2^N
S
0
ℓ = 0
2
4
6
8
10
12
14
1
ℓ = 0
4
8
12
2
ℓ =
0
8
3
ℓ =
0
1–95
7848A20