Neutron Star merger

gravitational waves, gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Black Hole merger

gravitational waves

Name: _____

Detections:

Blazar flare

radio, optical, X-rays, gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Solar flare

radio, optical, X-rays, gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Supernova

optical, X-rays, gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Gamma Ray Burst

gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Sun

sunlight, X-rays, gamma rays
cosmic rays, neutrinos

Name: _____

Detections:

Obscured Blazar

radio, *neutrinos*

Name: _____

Detections:

How to play this game:
You are what they call a source, a massive object somewhere deep in space, sending out its signals. **First**, write your name on the badge and put it on. Then check the info on this card, and ask the **detectors** if they can detect your messengers. The messengers in *italics* haven't really been seen yet from that source, but we will play as if they have. Only show your card when asked! Count how many times you've been detected underneath your name: 𝍸|. And any time you're wondering what all these crazy words actually mean, just ask one of the **physicists**. Welcome to the IceCube Masterclass!

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