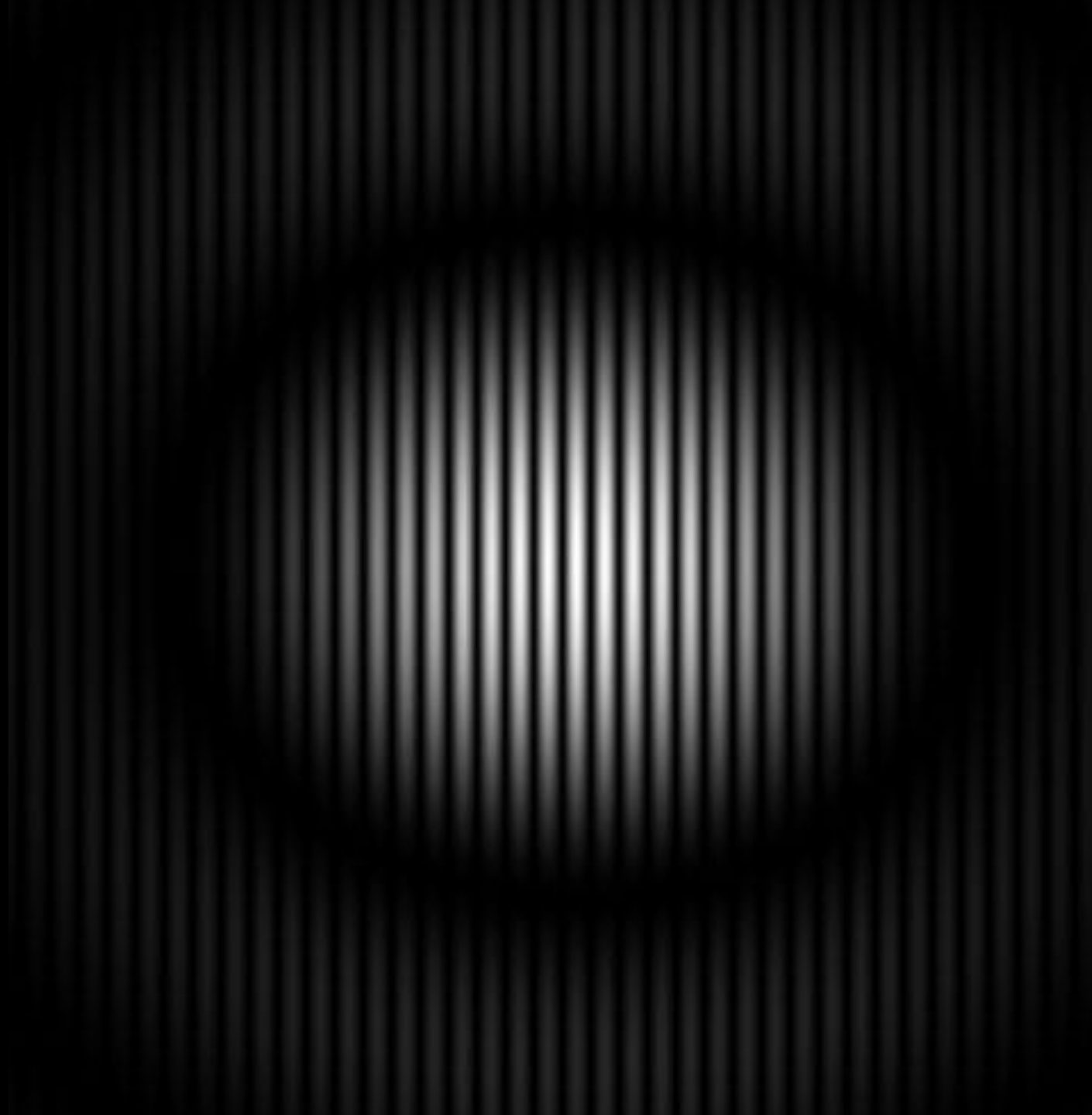


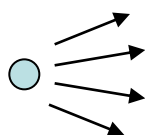
A painting of a turbulent sea with a storm brewing. The sky is filled with dark, heavy clouds, and the water is dark and choppy with white foam on the waves. The overall mood is dramatic and intense.

Kuantum fiziđi ve kanunların sınırı

A painting of a turbulent sea with dark, swirling waves and a cloudy sky. The text is overlaid in the center.

Dalga deyince
ne düşünüyorsunuz?

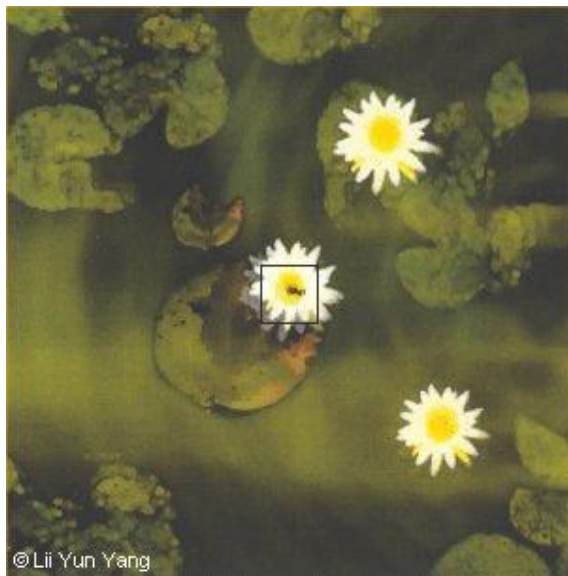




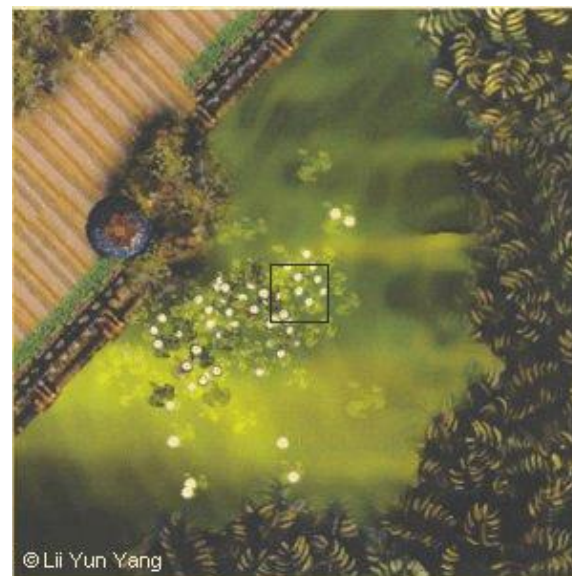
Kavramlarımız

- Kalemı bırakırsam ne olur?
- Geçmek?
- Delik?
- Tanecik?
- Hacım?
- Spin, lezzet, renk
- Dalga? (Ortam gerekli)

0



1



2



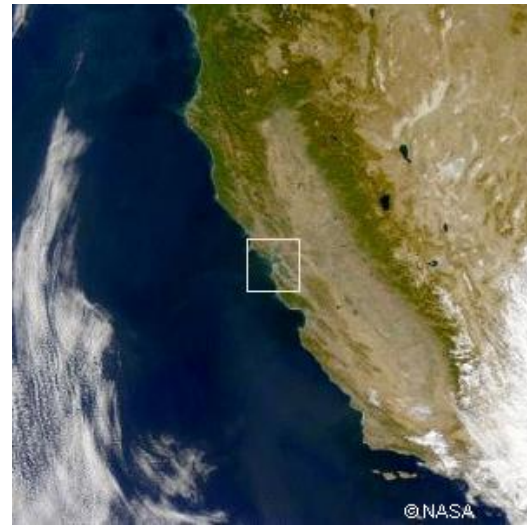
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4



5



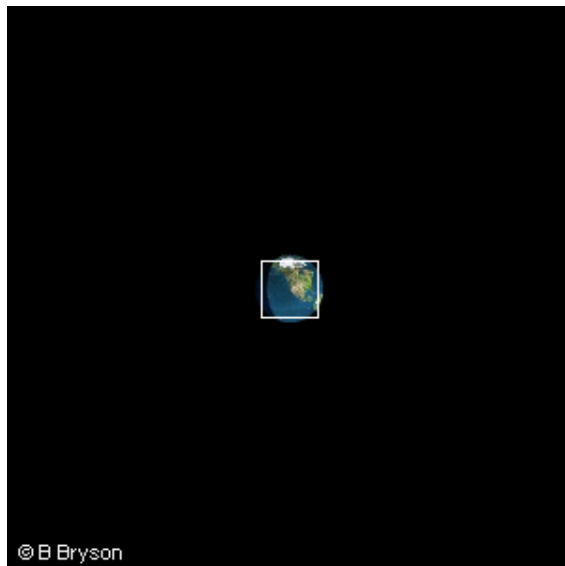
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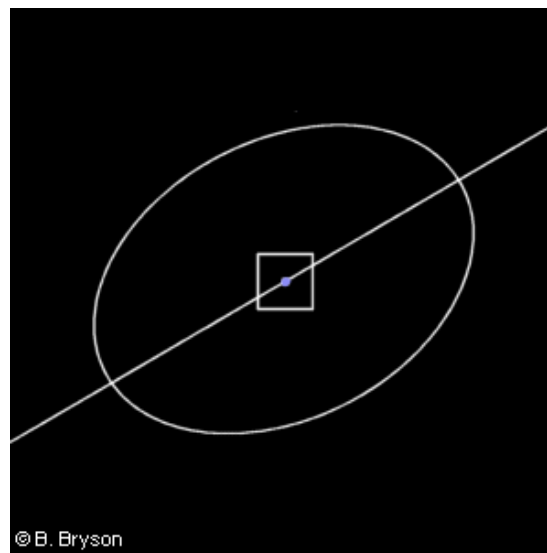
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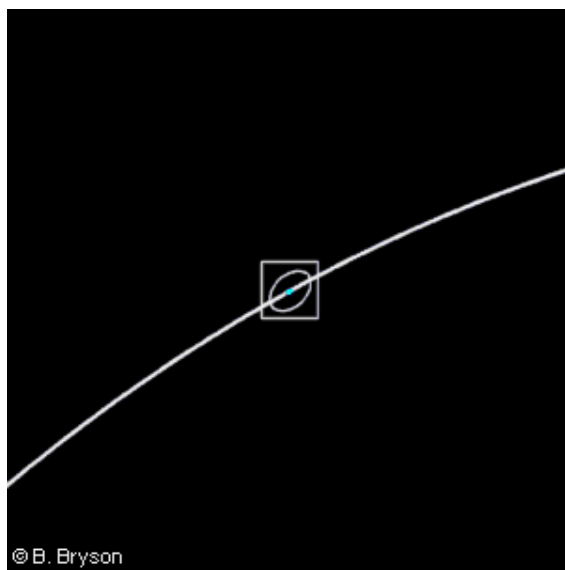
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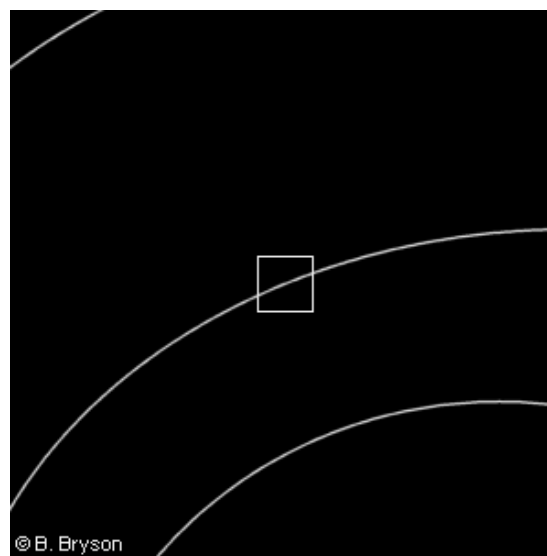
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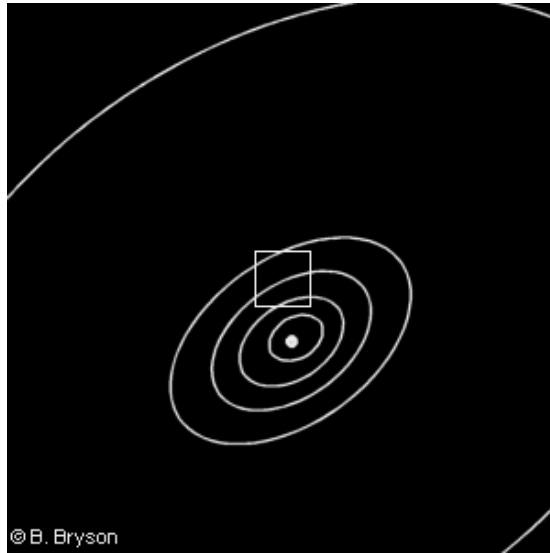
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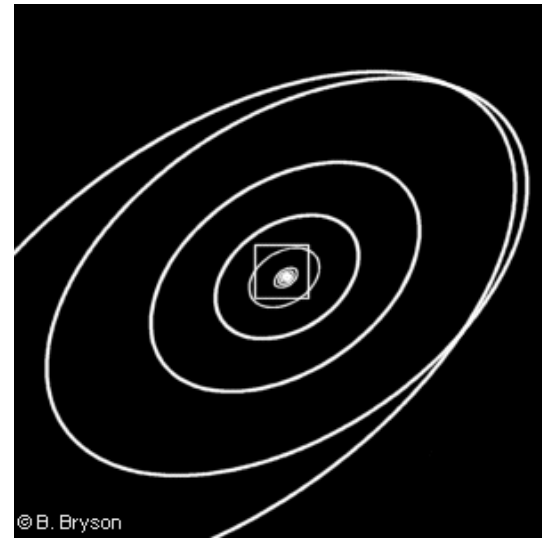
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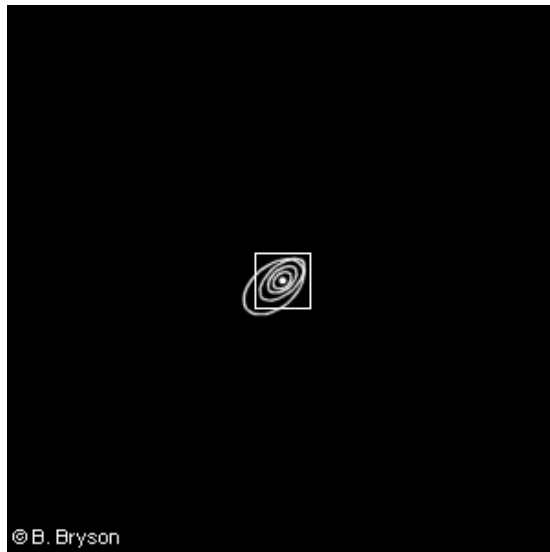
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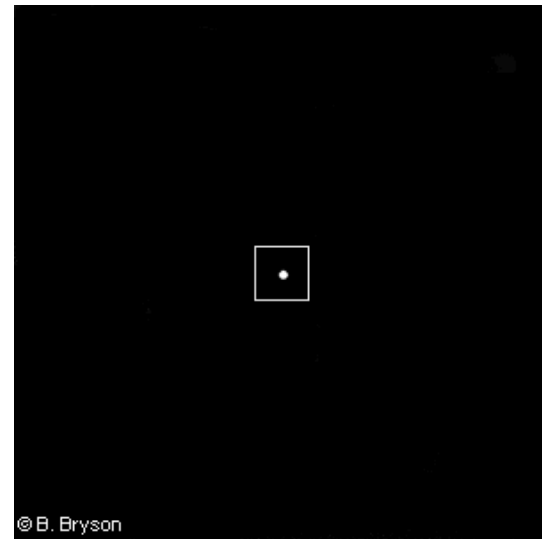
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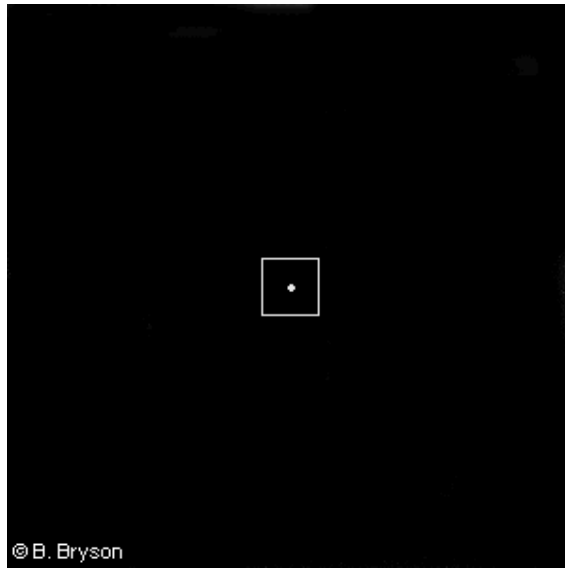
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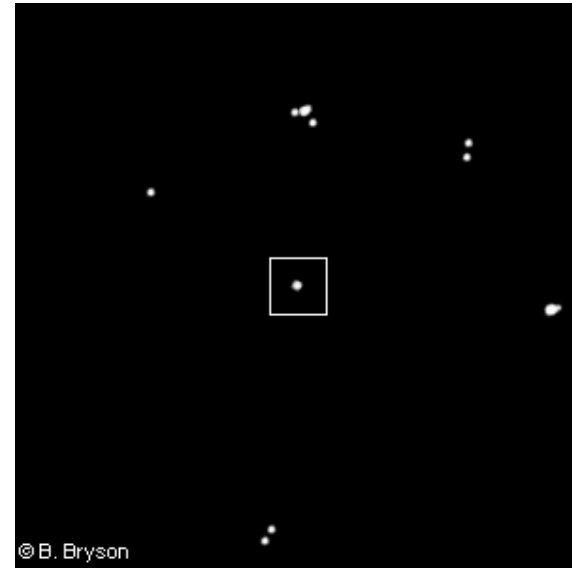
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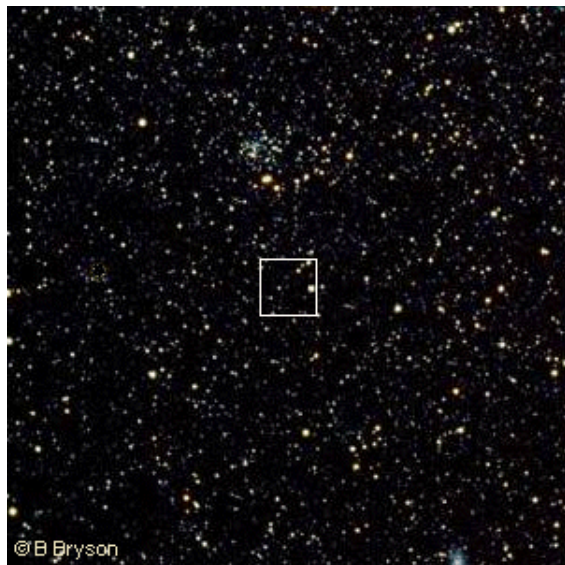
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17



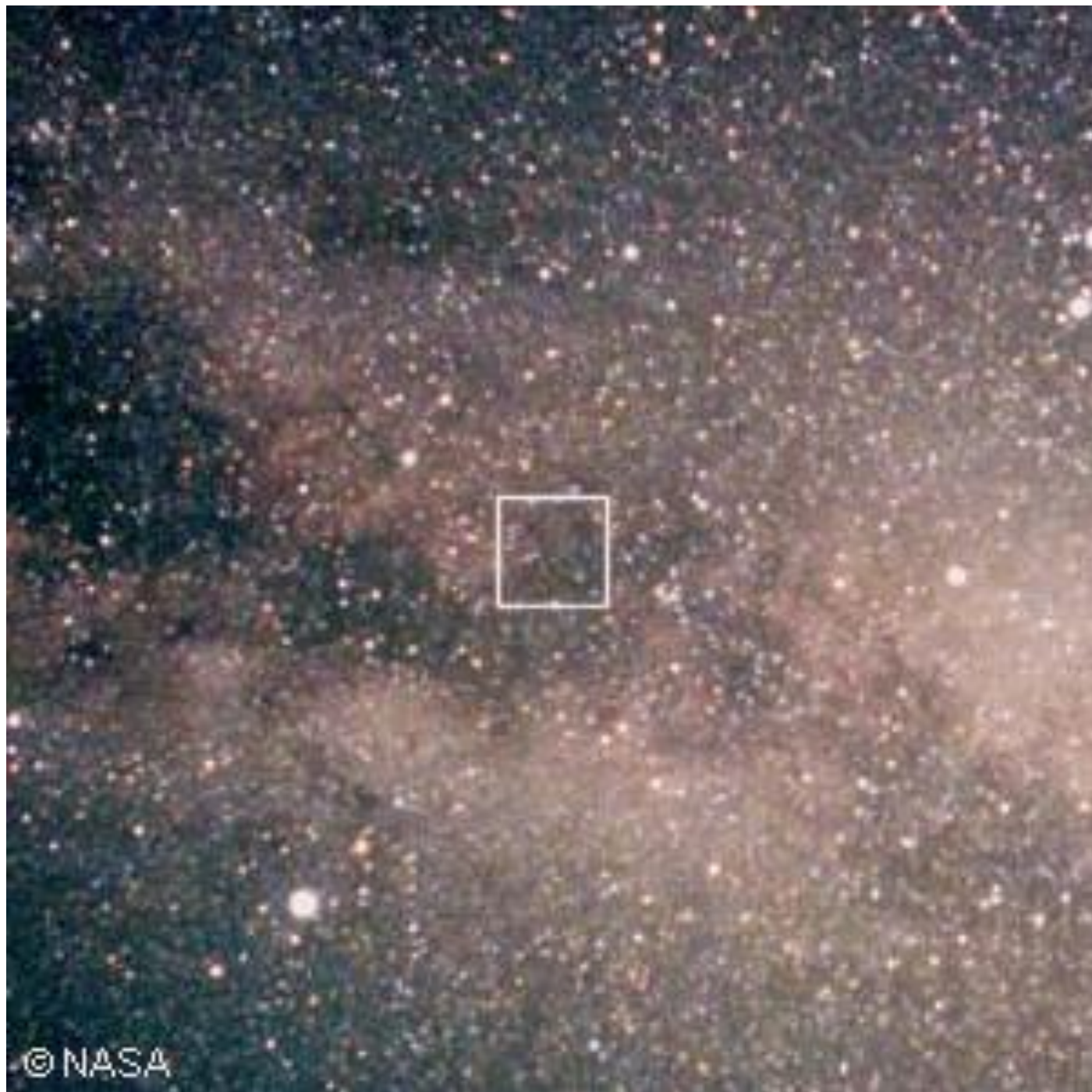
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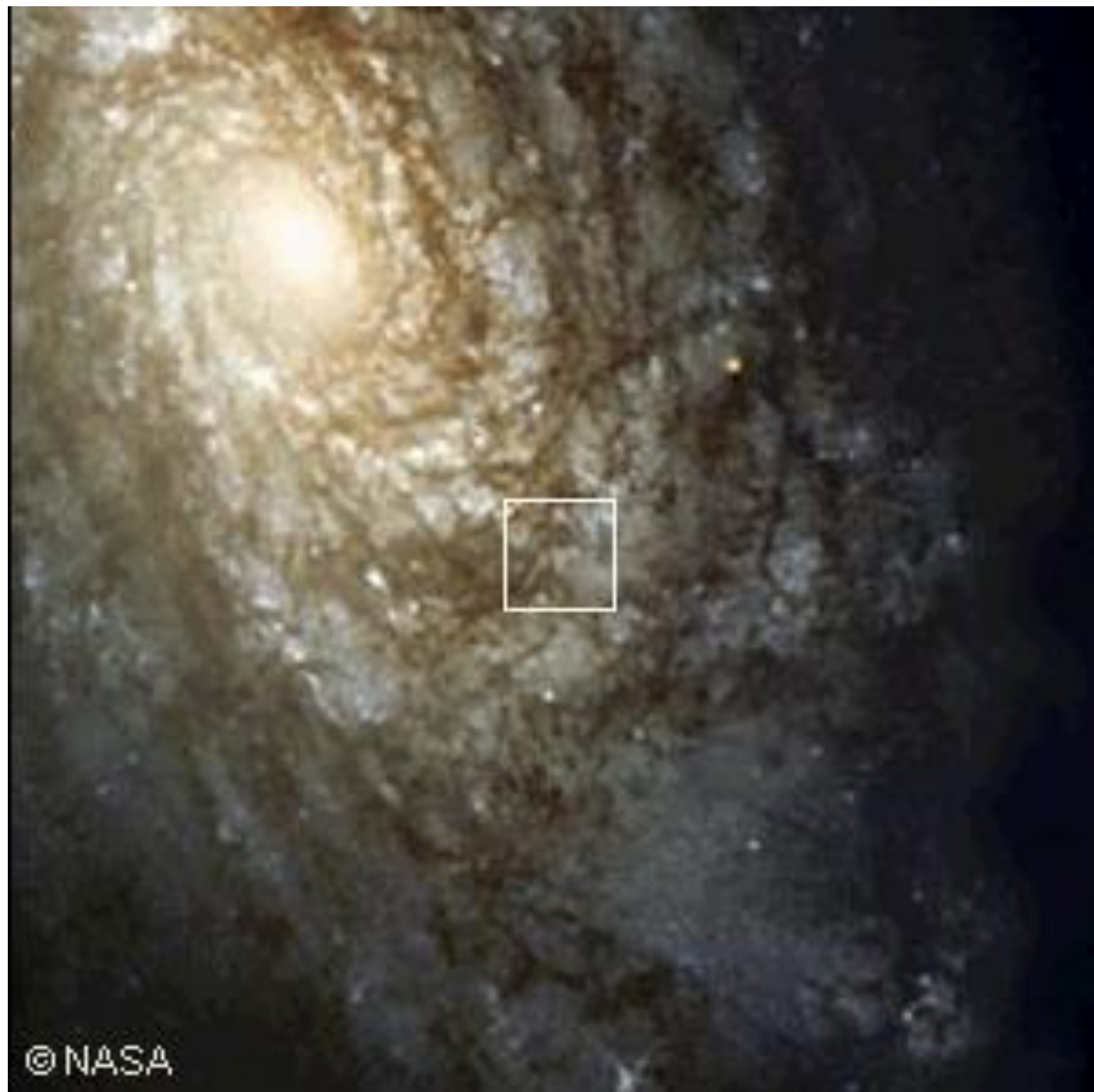
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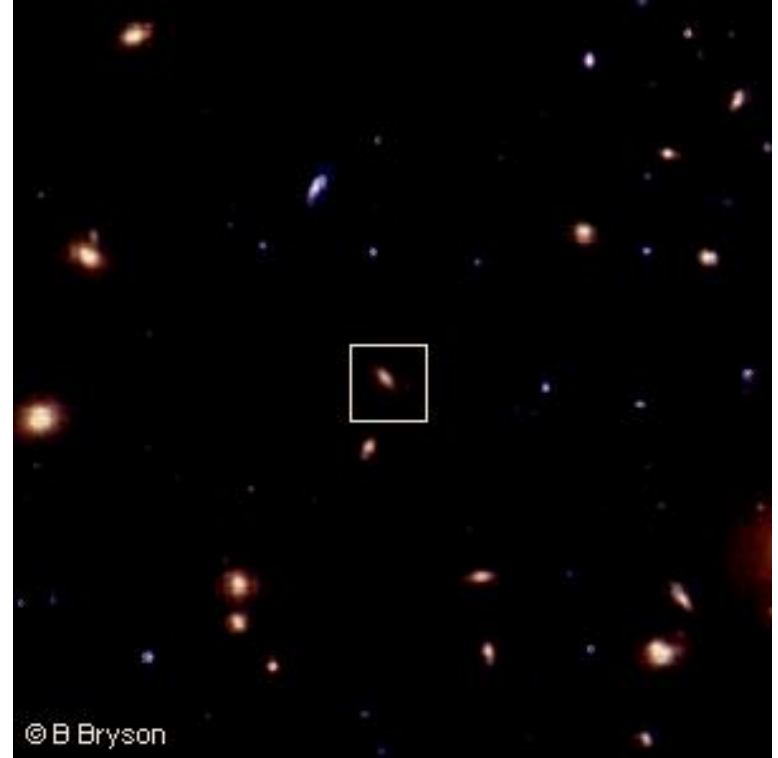
© NASA



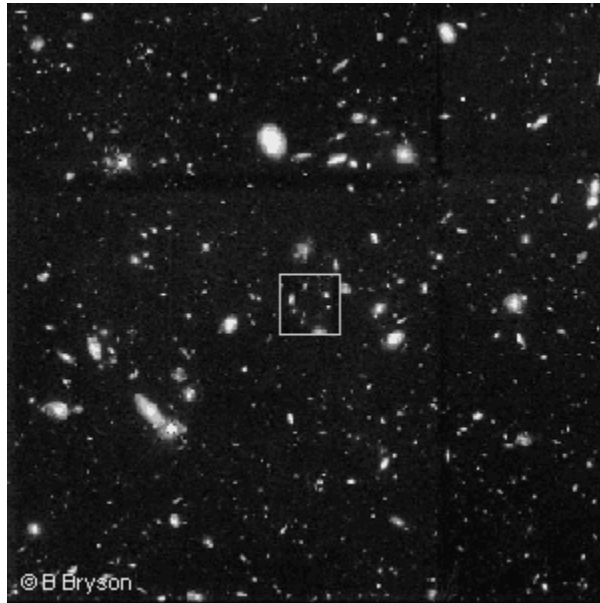
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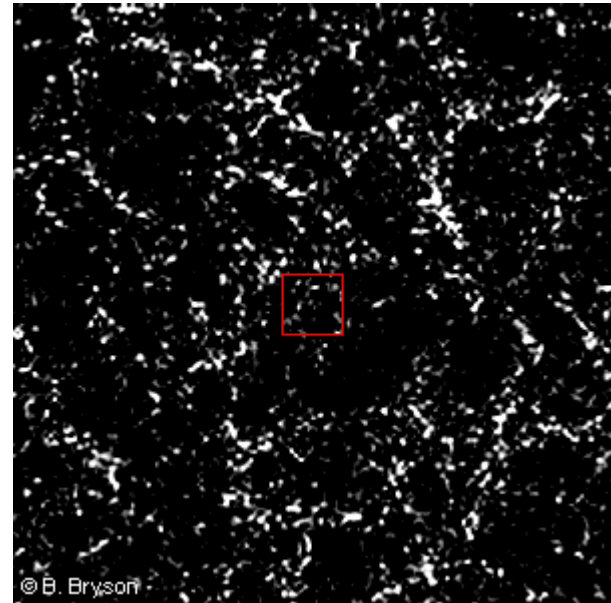
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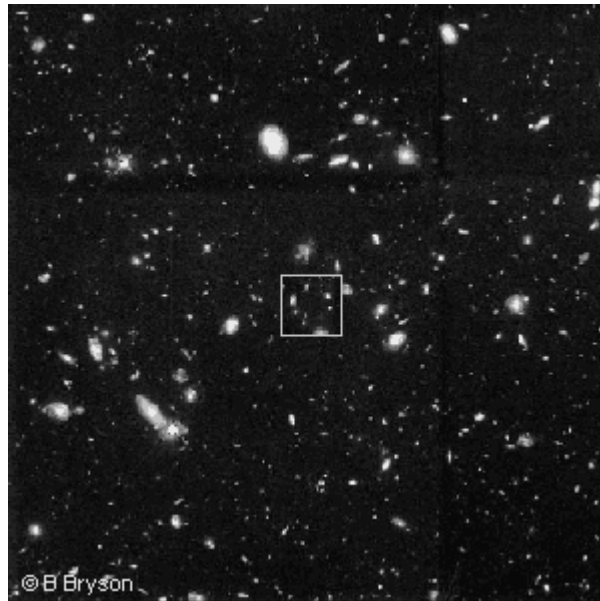
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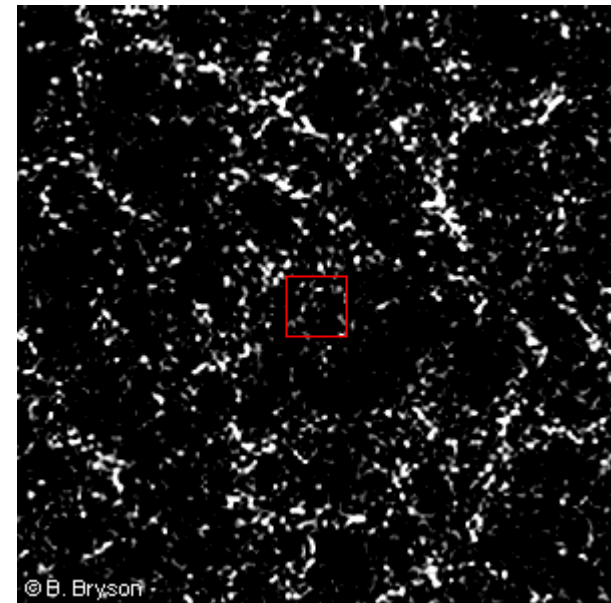
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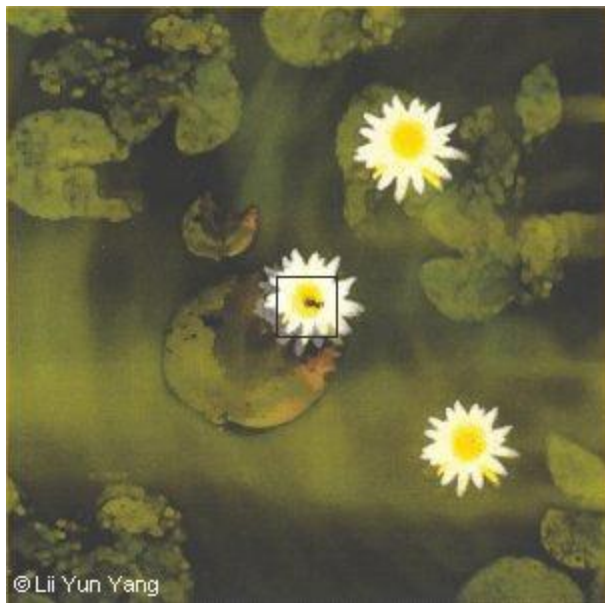
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27



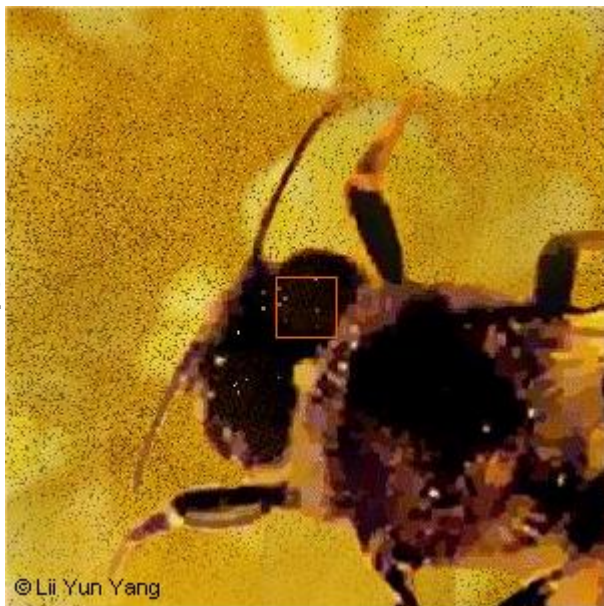
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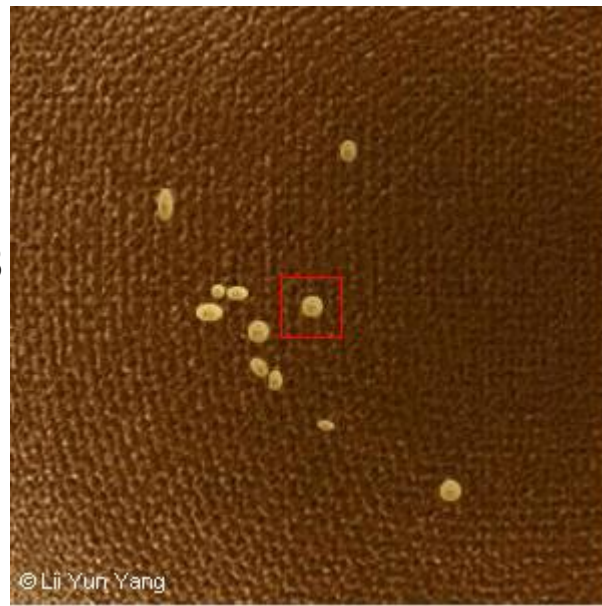
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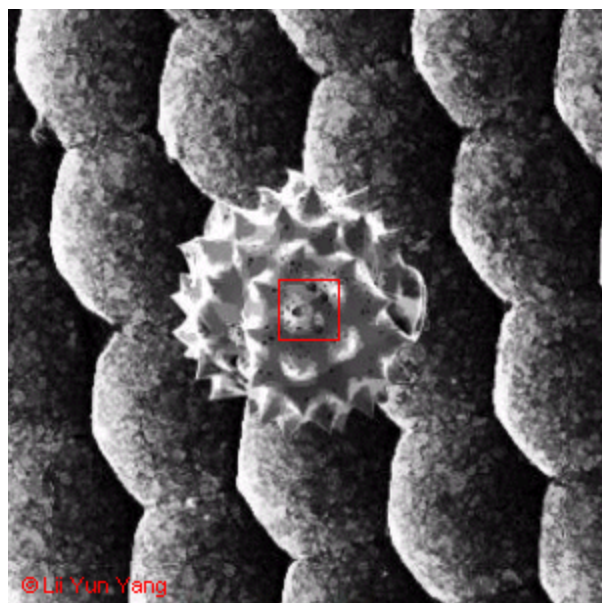
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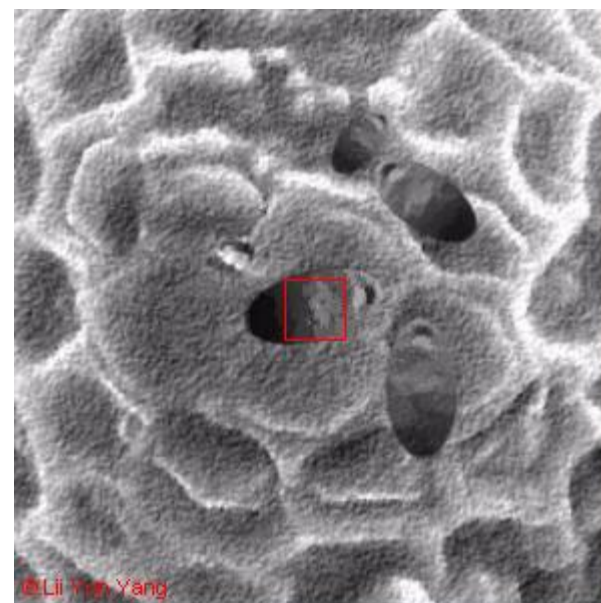
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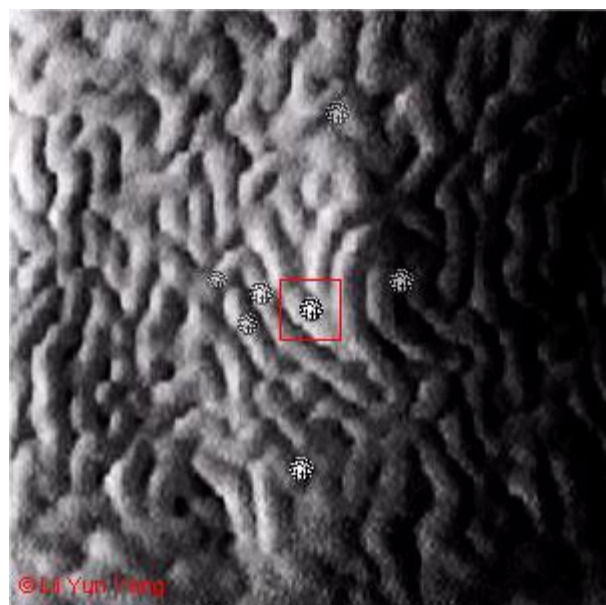
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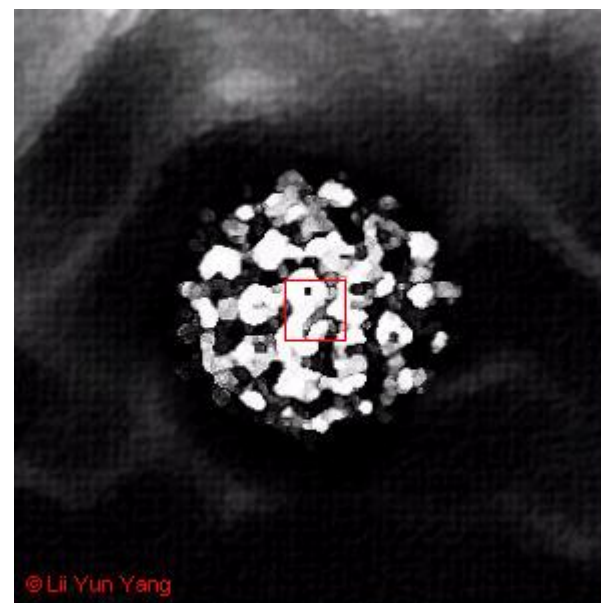
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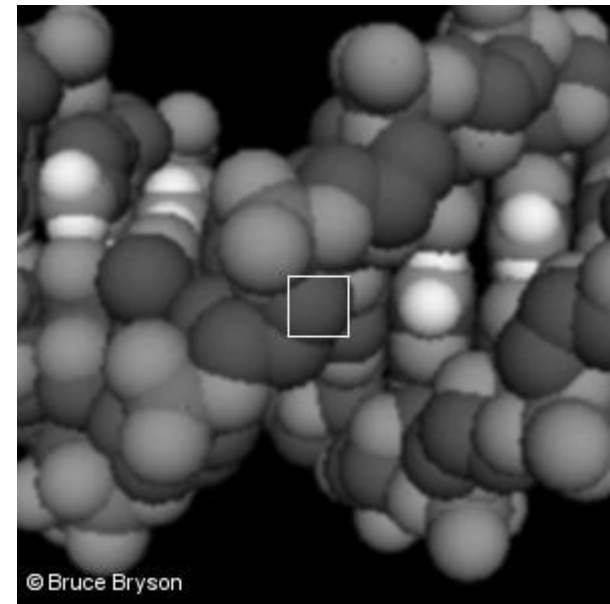
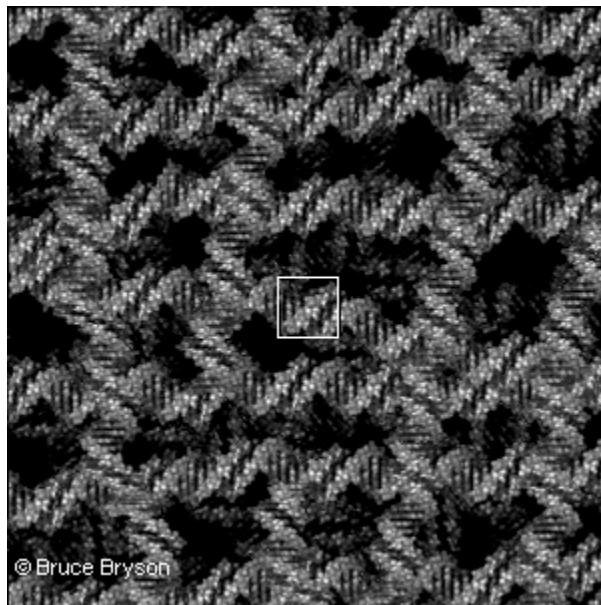
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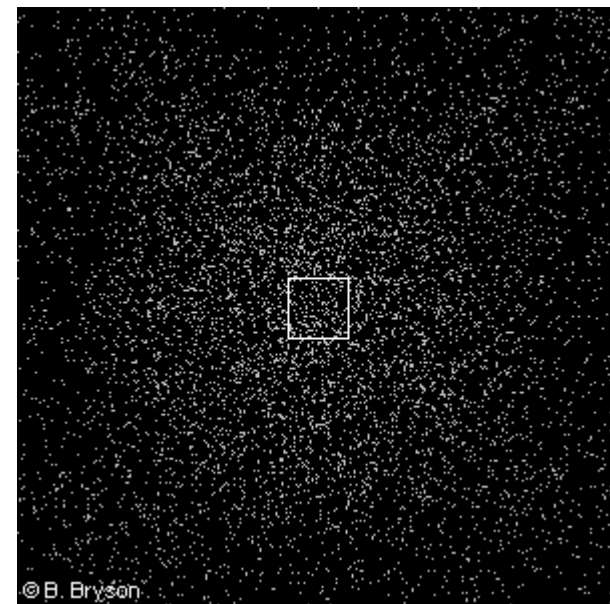
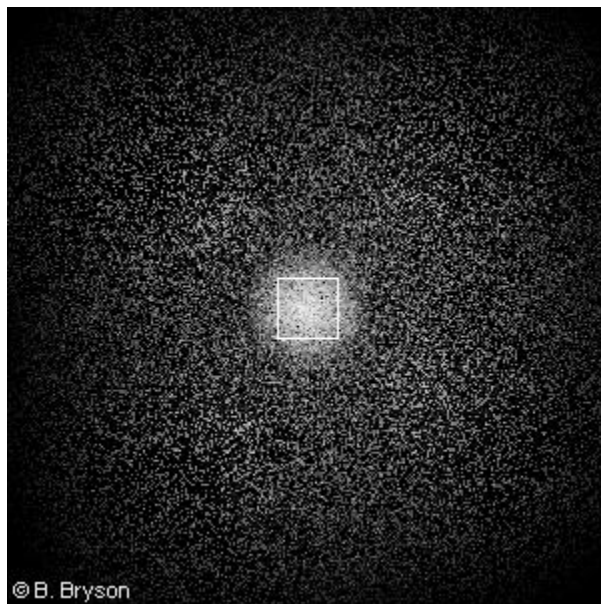


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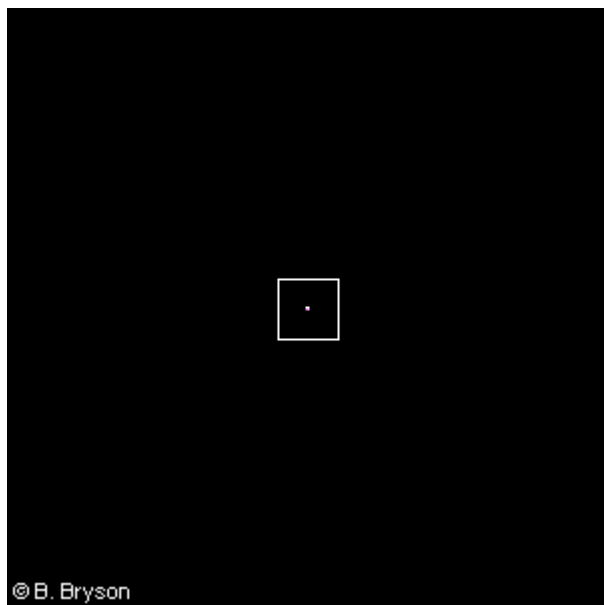
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-10



-11

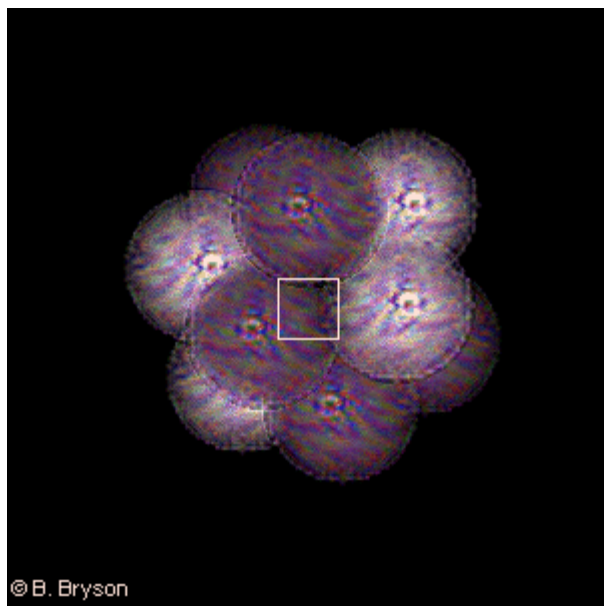
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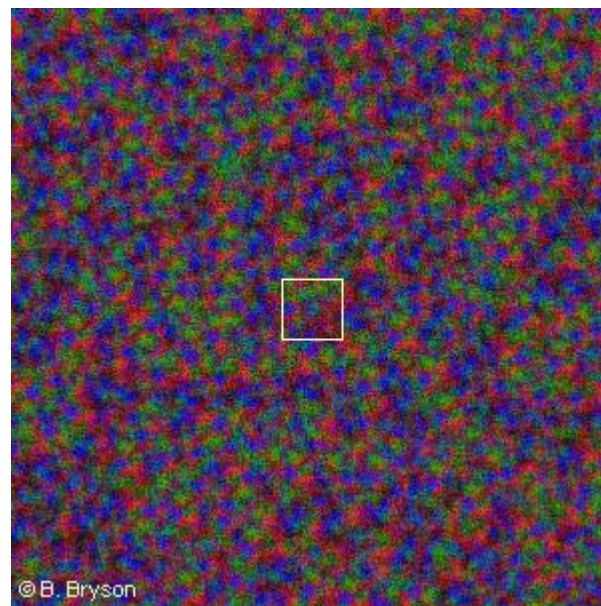
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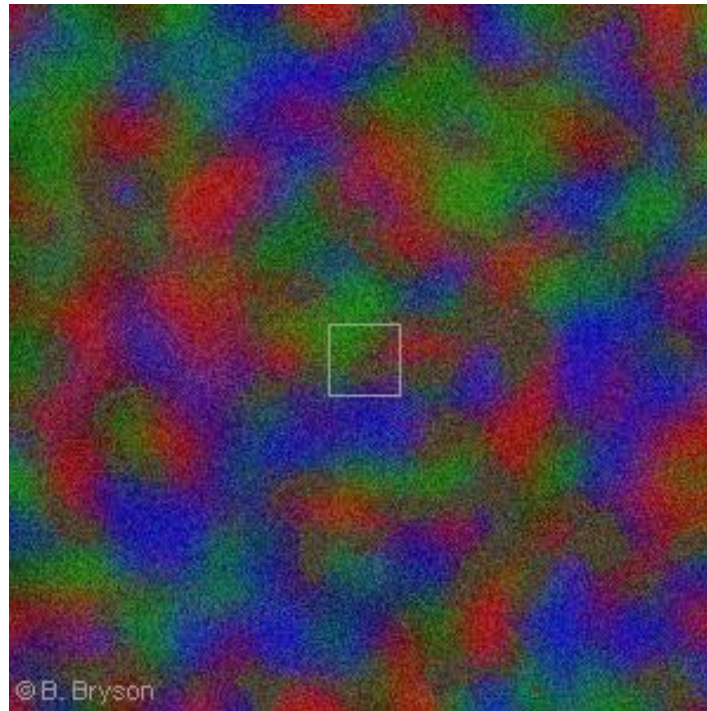
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-15



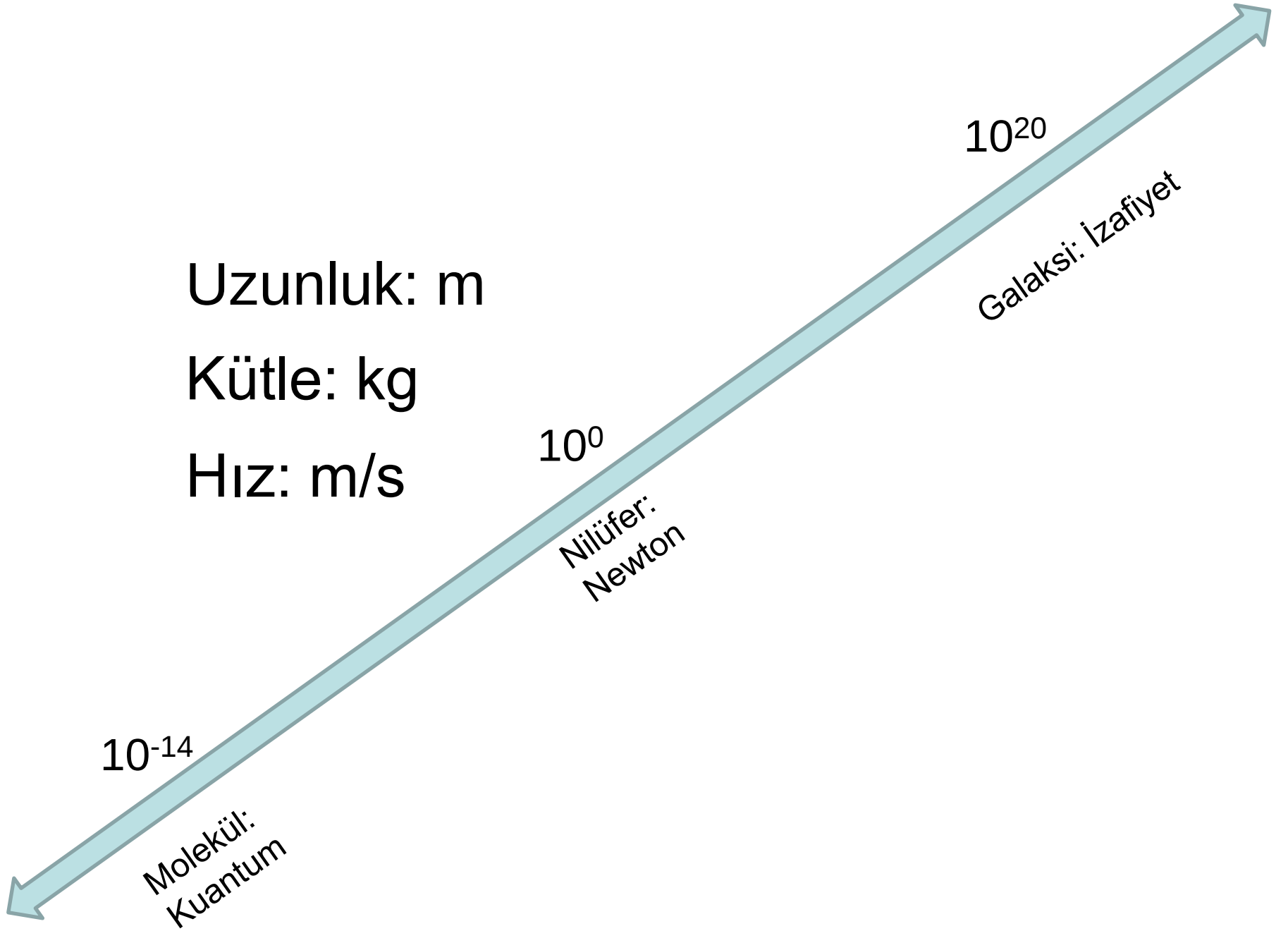
-16



1) “Akıl”, “sağduyu”, çevremizden edindiğimiz kavramlarla çalışır

2) Çevremizden edindiklerimiz bizim gözleyebildiğimiz evren parçasıyla sınırlıdır:
Sınırlı kanunlar.

3) İnsan aklını her zaman kullandı. Son asırlarda geliştirdiğimiz **bilim akıl üzerine değil, gözleme “akıllı” bakış üzerine kurulmuştur.**



Sınır kanunları

- Temel bilimlerde hemen her kanun sınır kanunudur:
- $\text{pH} = -\log_{10} a$ ($a = \gamma c$)
- $\text{pH} = -\log_{10} c$
- $\left(p + \frac{n^2 a}{V^2} \right) (V - nb) = nRT$ (van der Waals)
- $pV = nRT$ (Ideal gaz kanunu)

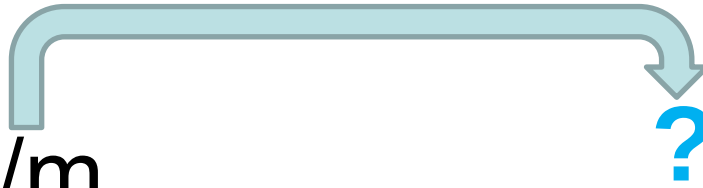
Kuantum:

Heisenberg'in belirsizlik ilkesi

$$\Delta x \Delta v > \hbar/m$$

veya

$$xv - vx = \hbar/m$$



$m = 1,00 \text{ kg}$ alırsam:

$$\hbar/m = 1,05 \times 10^{-34} \text{ m}^2/\text{s}$$

Özel izafiyet:

$$l = l_0 \times (1-v^2/c^2)^{1/2}$$

$$\Delta t = \Delta t_0 \times (1-v^2/c^2)^{1/2}$$

$$m = m_0 / (1-v^2/c^2)^{1/2}$$

$v = 1000 \text{ m/s}$ alırsam:

$$(1-v^2/c^2)^{1/2} = 0,9999999999999994$$

Sonuçlar:

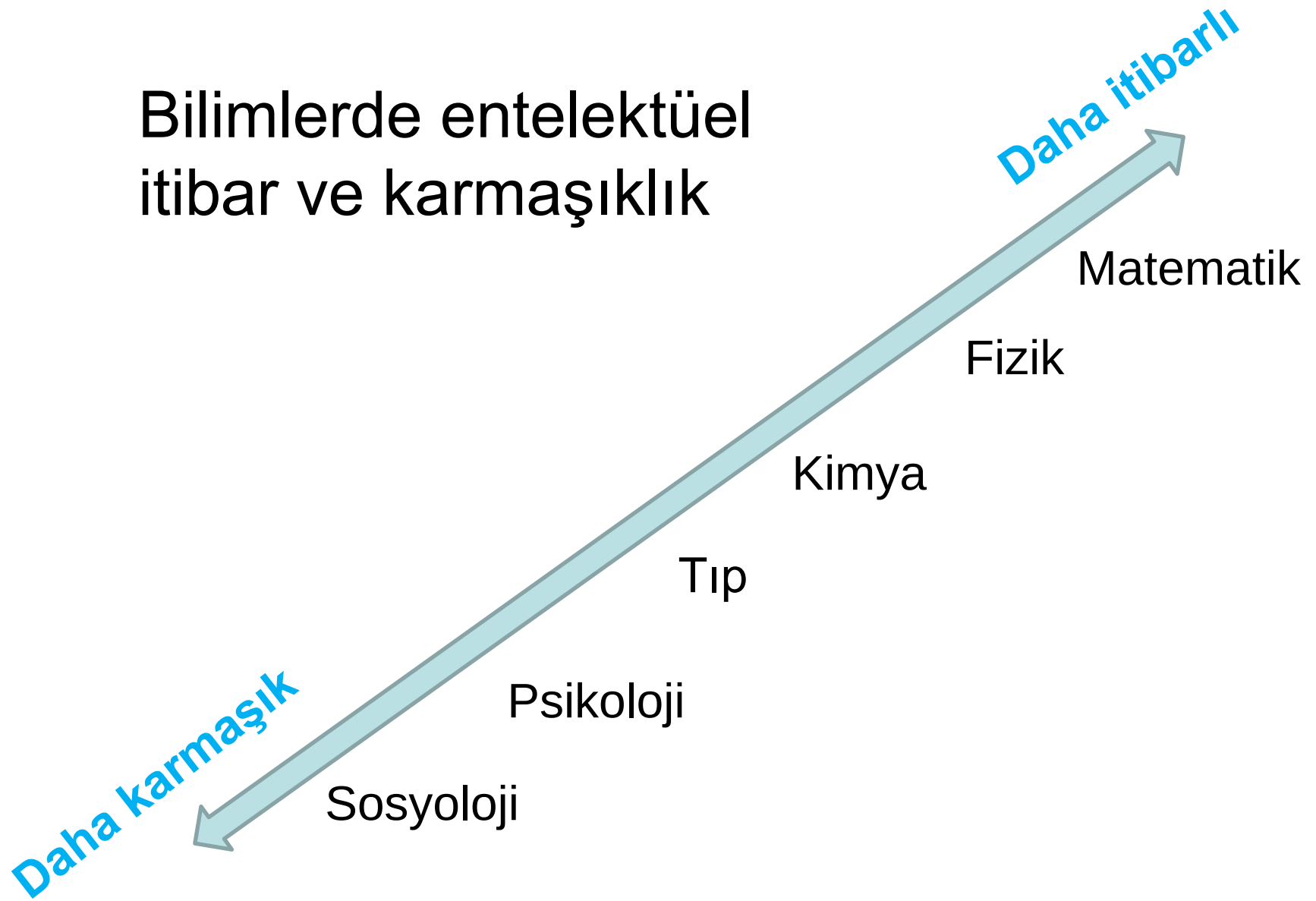
- Kalemı bırakırsanız yere düşer
- İnşaatlar Newton mekaniğine göre tasarlanır
- Beni bir kapıda görürseniz öbüründe değilim demektir
- Benim bir hacmım var

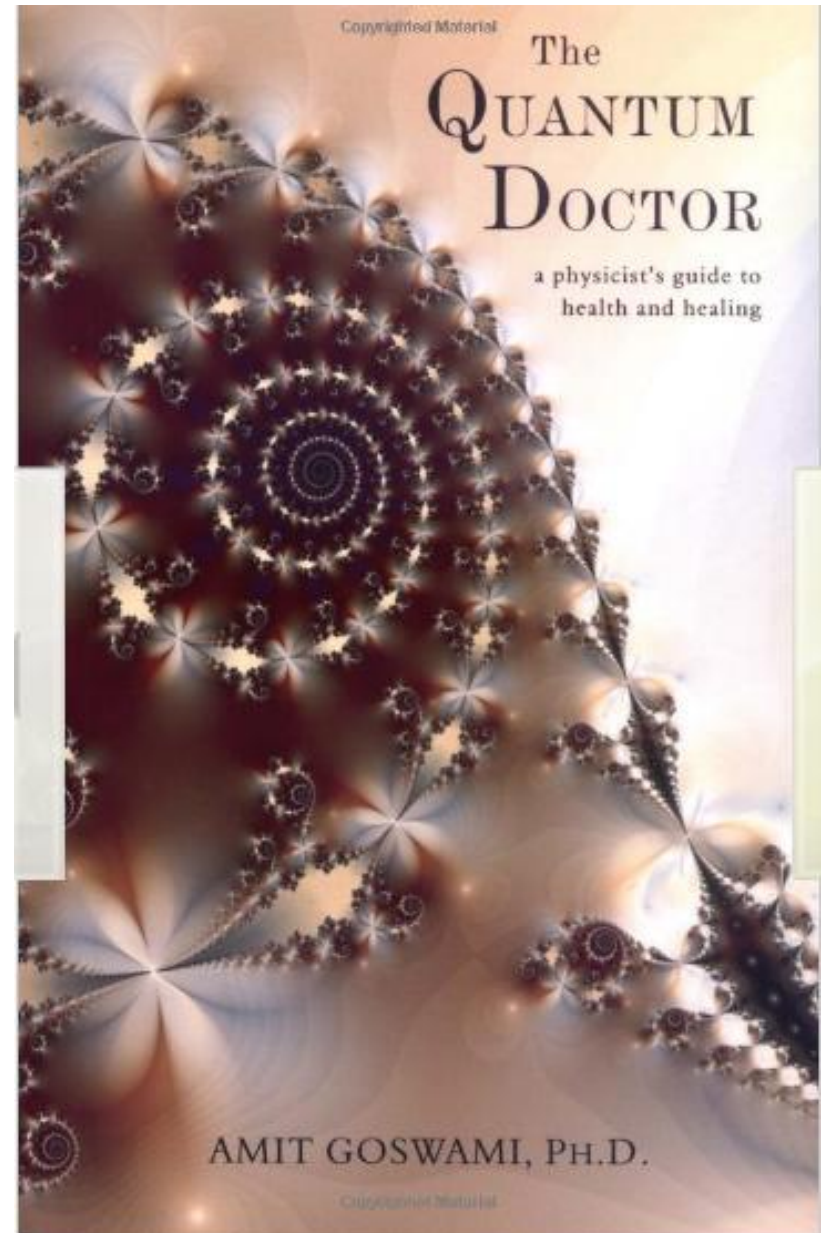
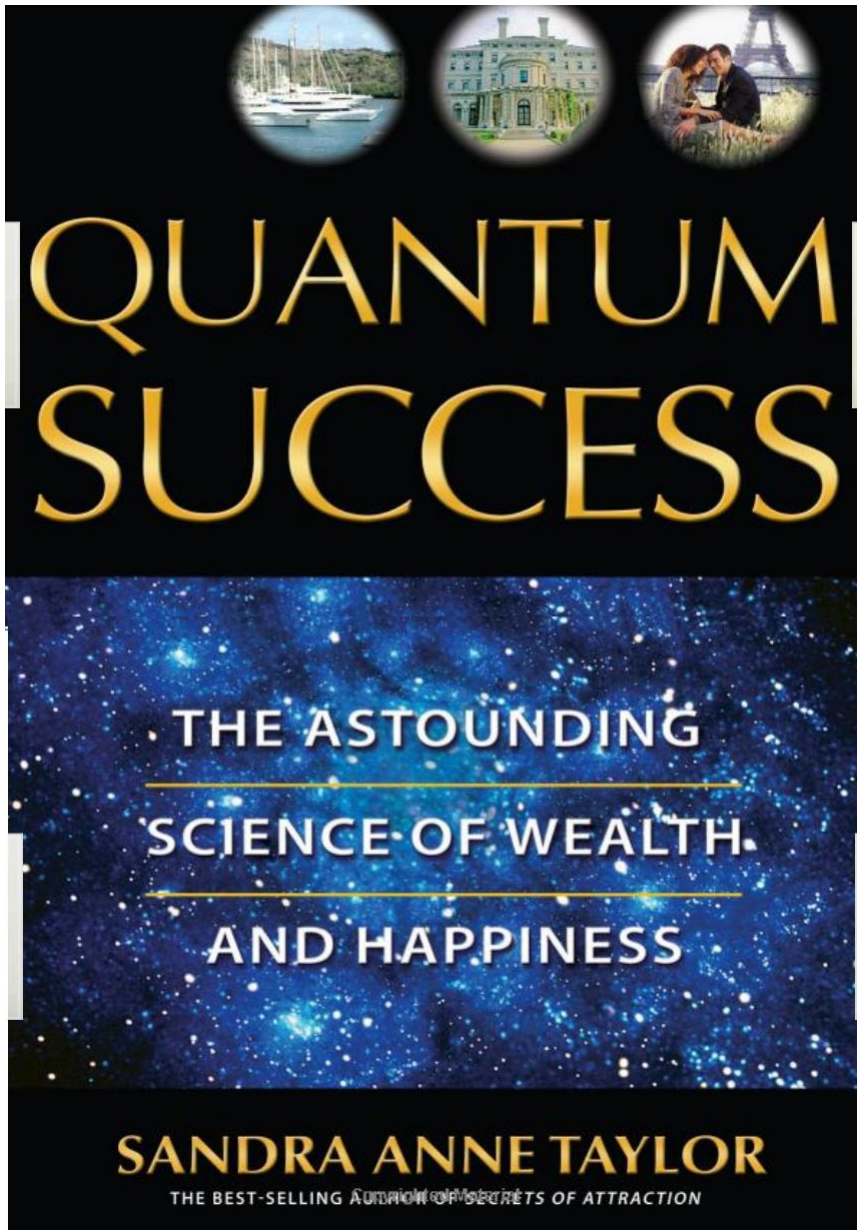
Fakat popüler kültür ve siyaset bunun farkında değil

- $F = ma$ ise her şey bilimle çözülür
- Sosyal Darwinizm [.](#)
- Hayvan magnetizması (animal magnetism)
- Titreşimler
- Enerji
- Kuantum
- Thriving On Chaos- Tom Peters

- 1890'lardan ABD İndiana Senatörü Albert Beveridge, senatodaki konuşmasında, yayılmacılığı doğal bir sürecin parçası diye tanımladıktan sonra bunu, "köksüz medeniyetlerin ve çürüten ırkların daha asil ve daha zinde, daha doğurgan insan tiplerinin üstün medeniyetlerinin önünde kayboluşu" diye tasvir ediyor. Missispi temsilcisi Charles Cochrane ise "bu Cumhuriyet'i kuran baş eğmez ırk"tan bahsediyor ve "dünyanın Arî ırklarca fethedileceğini" söylüyor. Cochrane'in konuşmasının sonunda ABD meclisi alkışlara boğuluyor
- "Man to Man" An epic about anthropologists who hunt and capture pygmies for study back in Europe, in an attempt to illustrate the link between man and ape.
-

Bilimlerde entelektüel itibar ve karmaşıklık





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—George Gilder, bestselling author and publisher of the *Gilder Technology Report*

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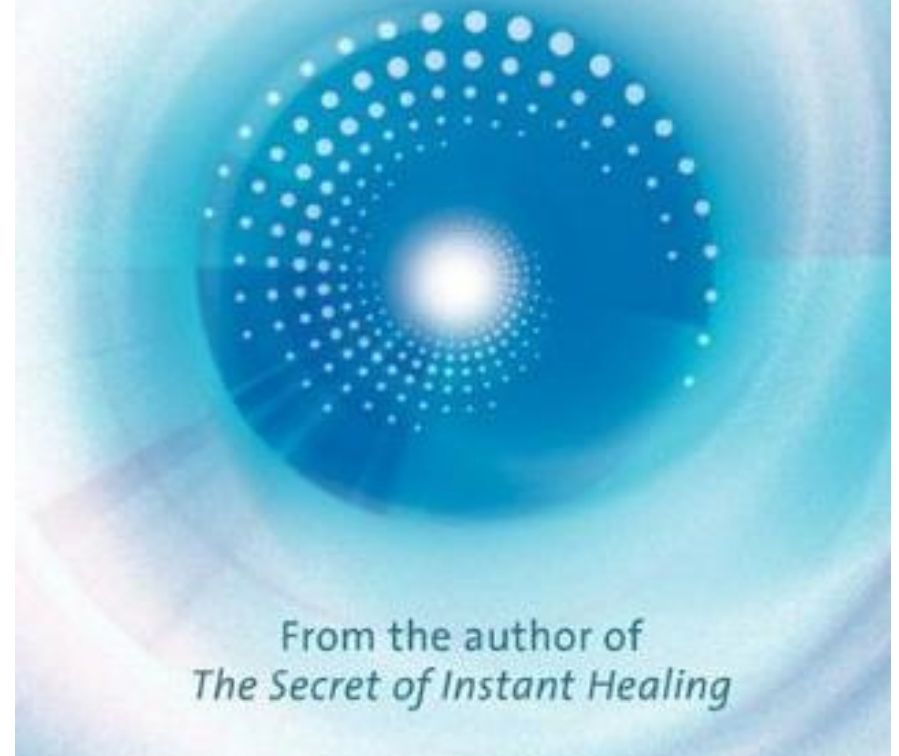
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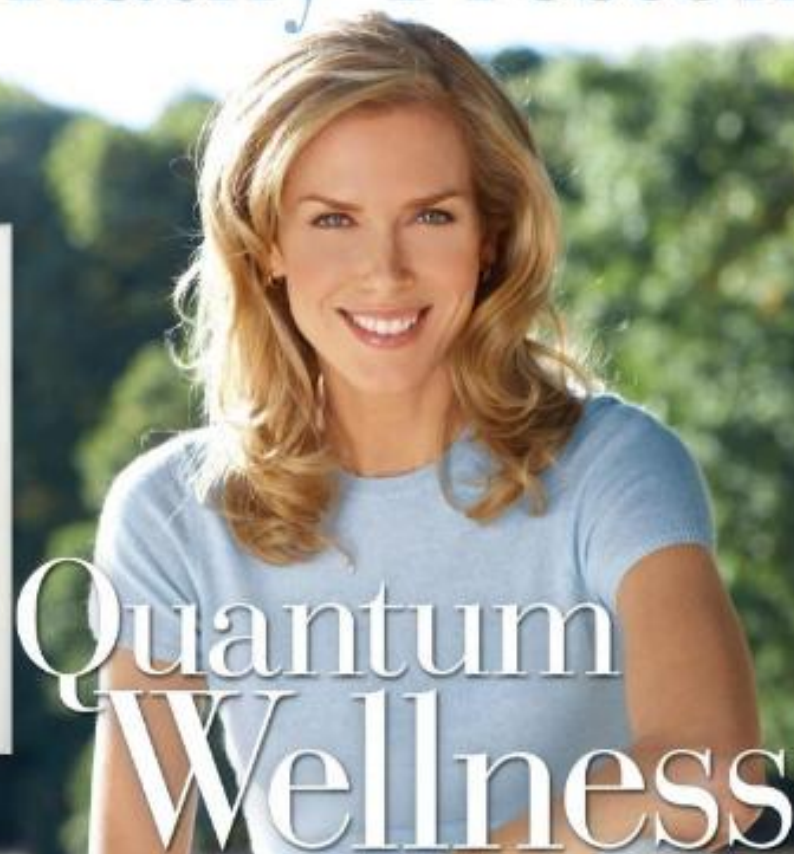
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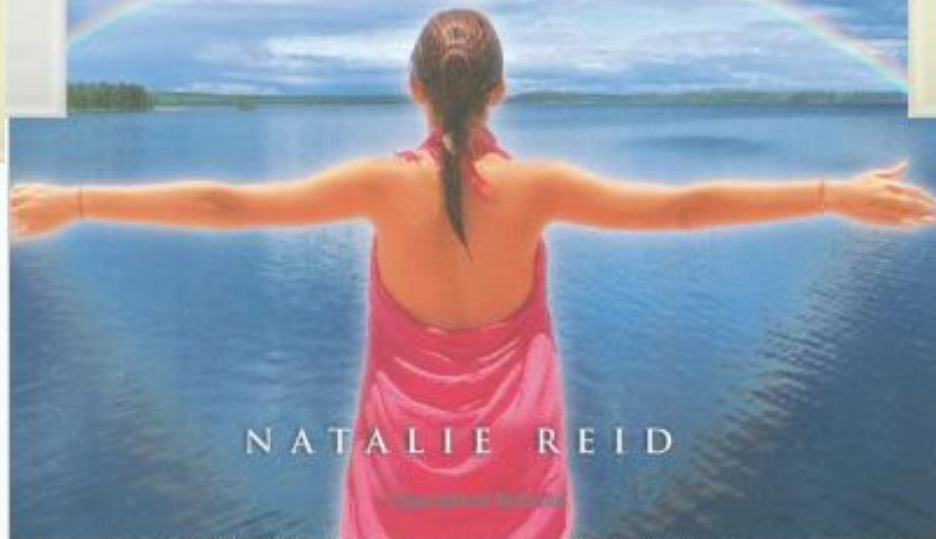
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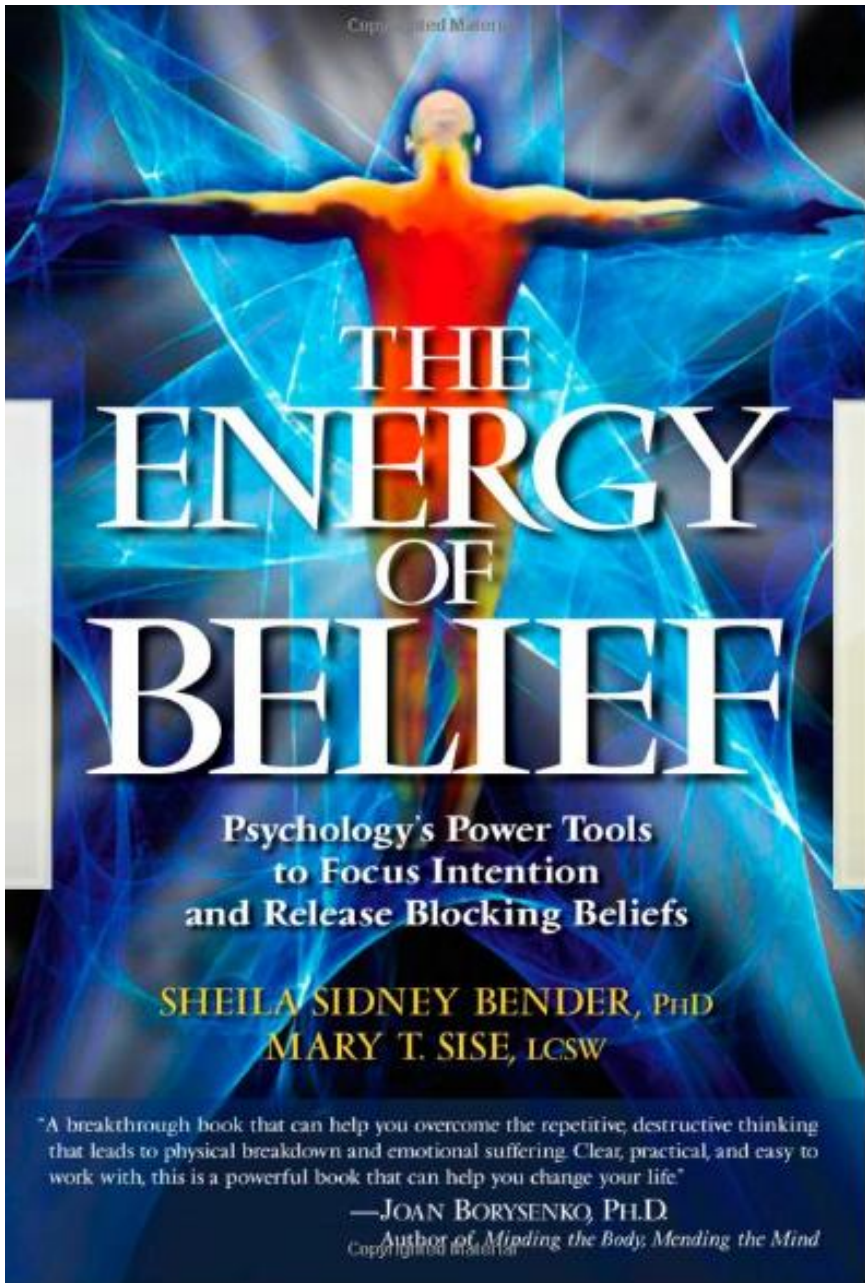
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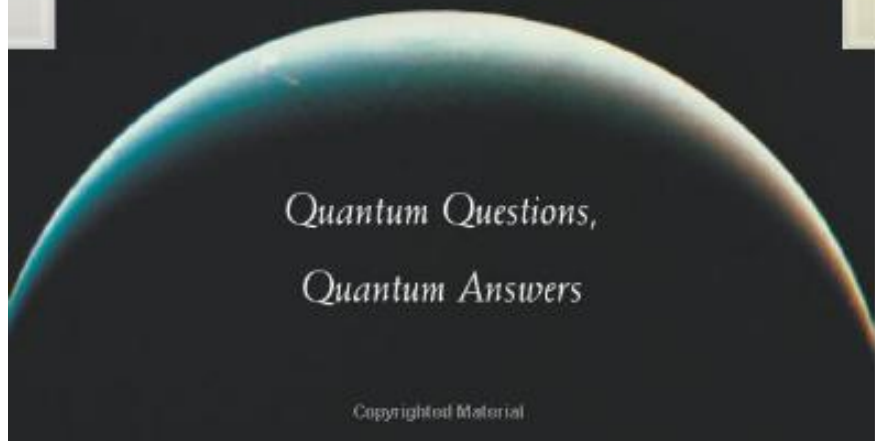
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