

An open letter to the Scientific Community. **cosmologystatement.org**

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Теория Большого взрыва сегодня основывается на растущем количестве гипотетических объектов, которые мы никогда не наблюдали: вспученность, темная материя, темная энергия – наиболее одиозные примеры. Без них было бы фатальное противоречие между наблюдениями, сделанными астрономами, и предсказаниями теории Большого взрыва. Ни в какой другой области физики не используется такой метод создания новых гипотетических объектов для наведения моста между теорией и наблюдением. По крайней мере, только это поднимает серьезный вопрос о законности основополагающей теории современной космологии.

Но теория Большого взрыва не может выжить без этих подтасованных факторов. Без гипотетического поля вспученностей, Большой взрыв не предсказывает однородное и изотропное космическое фоновое излучение, которое наблюдается, потому что нет объяснения тому, как части Вселенной, которые отдалены друг от друга на несколько градусов на небе, могли приобрести одну и ту же температуру и, таким образом, излучать то же самое количество микроволновой радиации.

Без некоторого сорта темной материи, отличающейся от всего того, что мы наблюдали на Земле на протяжении 20 лет экспериментов, теория Большого взрыва дает противоречащие предсказания для плотности материи во Вселенной. Вспученность требует плотности в 20 раз большей, чем обеспечивается ядерным синтезом при Большом взрыве. А для создания легких элементов без темной энергии, теория предсказывает возраст Вселенной только приблизительно 8 миллиардов лет, который является на миллиарды лет меньше возраста многих звезд в нашей галактике.

Более того, теория Большого взрыва не может похвастаться никакими количественными предсказаниями, которые впоследствии были подтверждены наблюдением. Успехи, провозглашенные сторонниками теории, состоят в ретроспективном объяснении отдельных наблюдений с постоянно увеличивающимся количеством приспособляемых параметров, также как старая Землецентрированная космология Птолемея накладывала эпициклы на эпициклы для объяснения движения планет вокруг Солнца.

Все же Большой взрыв - не единственная доступная возможность понять историю Вселенной. Плазменная космология и стационарная Вселенная - обе рассматривают развивающуюся Вселенную без того, чтобы в ней было начало и конец. Эти и другие альтернативные подходы могут также объяснять основные явления космоса, включая изобилие легких элементов, создание крупномасштабных структур, космическое фоновое излучение, и как красный сдвиг далеких галактик зависит от расстояния. Они даже предсказали новые явления, которые впоследствии наблюдались, а теория Большого взрыва не сумела это сделать.

Сторонники теории Большого взрыва могут возразить, что эти теории не объясняют каждое космологическое наблюдение. Но это неудивительно, поскольку их развитие было строго ограничено полным недостатком финансирования. Действительно, такие вопросы и альтернативы свободно не могут теперь быть обсуждены и исследованы. Открытый обмен идеями отсутствует на большинстве конференций. Вопреки словам Ричарда Фейнмана: "Наука - это культура сомнения", в космологии сегодня сомнение и инакомыслие не допускается, и молодые ученые останутся немymi, если они что-то отрицательное скажут о стандартной модели Большого взрыва. Те, кто сомневаются относительно Большого взрыва, боятся, что высказывание обернется им отсутствием финансирования.

Даже наблюдения теперь интерпретируются через этот пристрастный фильтр: оцениваются как верные или неверные в зависимости от того, действительно ли они поддерживают Большой взрыв. Так противоречащие этой теории данные относительно красного смещения, избытка лития и гелия, распределения галактик наряду с другими игнорируются или высмеиваются. Это свидетельствует о растущем догматическом мышлении, которое является чуждым духу свободного научного исследования.

Сегодня, фактически все финансовые и экспериментальные ресурсы в космологии посвящены исследованиям Большого взрыва. Финансирование осуществляется из ограниченного количества источников, и все рецензирующие комитеты, которые управляют ими, находятся во власти сторонников Большого взрыва. В результате – господство теории Большого взрыва во всей этой области, – она стала самоподдерживающейся и независимой от научной справедливости.

Оказание поддержки проектам только в рамках теории Большого взрыва подрывает фундаментальный элемент научного метода - постоянной проверки теории наблюдениями. Такое ограничение делает невозможным беспристрастное обсуждение и исследование. Чтобы исправить это, мы призываем те агентства, которые финансируют работу в космологии, отложить существенную долю их финансирования для исследований в альтернативных направлениях и для наблюдений, противоречащих Большому взрыву. Чтобы избежать предубеждений, комитет рецензентов, который ассигнует такие фонды, должен также включать астрономов и физиков, работающих вне области космологии. Финансирование исследований по достоверности теории Большого взрыва и альтернативных ей теорий, позволило бы научному сообществу определить наиболее точную модель истории Вселенной.

ОРИГИНАЛ ПИСЬМА.

<http://news.mail.ru/society/7057813/?frommail=1>

The big bang today relies on a growing number of hypothetical entities, things that we have never observed-- inflation, dark matter and dark energy are the most prominent examples. Without them, there would be a fatal contradiction between the observations made by astronomers and the predictions of the big bang theory. In no other field of physics would this continual recourse to new hypothetical objects be accepted as a way of bridging the gap between theory and observation. It would, at the least, raise serious questions about the validity of the underlying theory.

But the big bang theory can't survive without these fudge factors. Without the hypothetical inflation field, the big bang does not predict the smooth, isotropic cosmic background radiation that is observed, because there would be no way for parts of the universe that are now more than a few degrees away in the sky to come to the same temperature and thus emit the same amount of microwave radiation.

Without some kind of dark matter, unlike any that we have observed on Earth despite 20 years of experiments, big-bang theory makes contradictory predictions for the density of matter in the universe. Inflation requires a density 20 times larger than that implied by big bang nucleosynthesis, the theory's explanation of the origin of the light elements. And without dark energy, the theory predicts that the universe is only about 8 billion years old, which is billions of years younger than the age of many stars in our galaxy.

What is more, the big bang theory can boast of no quantitative predictions that have subsequently been validated by observation. The successes claimed by the theory's supporters consist of its ability to retrospectively fit observations with a steadily increasing array of adjustable parameters, just as the old Earth-centered cosmology of Ptolemy needed layer upon layer of epicycles.

Yet the big bang is not the only framework available for understanding the history of the universe. Plasma cosmology and the steady-state model both hypothesize an evolving universe without beginning or end. These and other alternative approaches can also explain the basic phenomena of the cosmos, including the abundances of light elements, the generation of large-scale structure, the cosmic background radiation, and how the redshift of far-away galaxies increases with distance. They have even predicted new phenomena that were subsequently observed, something the big bang has failed to do.

Supporters of the big bang theory may retort that these theories do not explain every cosmological observation. But that is scarcely surprising, as their development has been severely hampered by a complete lack of funding. Indeed, such questions and alternatives cannot even now be freely discussed and examined. An open exchange of ideas is lacking in most mainstream conferences. Whereas Richard Feynman could say that "science is the culture of doubt", in cosmology today doubt and dissent are not tolerated, and young scientists learn to remain silent if they have something negative to say about the standard big bang model. Those who doubt the big bang fear that saying so will cost them their funding.

Even observations are now interpreted through this biased filter, judged right or wrong depending on whether or not they support the big bang. So discordant data on red shifts, lithium and helium abundances, and galaxy distribution, among other topics, are ignored or ridiculed. This reflects a growing dogmatic mindset that is alien to the spirit of free scientific inquiry.

Today, virtually all financial and experimental resources in cosmology are devoted to big bang studies. Funding comes from only a few sources, and all the peer-review committees that control them are dominated by supporters of the big bang. As a result, the dominance of the big bang within the field has become self-sustaining, irrespective of the scientific validity of the theory.

Giving support only to projects within the big bang framework undermines a fundamental element of the scientific method -- the constant testing of theory against observation. Such a restriction makes unbiased discussion and research impossible. To redress this, we urge those agencies that fund work in cosmology to set aside a significant fraction of their funding for investigations into alternative theories and observational contradictions of the big bang. To avoid bias, the peer review committee that allocates such funds could be composed of astronomers and physicists from outside the field of cosmology.

Allocating funding to investigations into the big bang's validity, and its alternatives, would allow the scientific process to determine our most accurate model of the history of the universe.

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