

Сергей Геннадиевич Сергеев



(30.05.1964 - 29.09.2021)

29 сентября 2021 года на 58 году жизни скоропостижно скончался доктор физико-математических наук, заведующий отделом Внегалактических исследований и гамма-астрономии Крымской астрофизической обсерватории Киевского национального университета им. Тараса Шевченко (КрАО).

С.Г. Сергеев окончил Казанский государственный университет в 1986 году. В 1986-1987 гг. работал инженером в Молдавском государственном университете. С 1987 по 1990 учился в аспирантуре в КрАО. После аспирантуры поступил на работу в КрАО, где проработал более 30 лет. Кандидатскую и докторскую диссертации в области астрофизики и радиоастрономии защитил в 1999 и 2012 годах.

Сергей Геннадиевич плодотворно и результативно исследовал активные ядра галактик (АЯГ) на крымском 2.6-м телескопе ЗТШ (Зеркальный телескоп им. Г.А. Шайна). Им были разработаны новые методы и подходы к мониторингу переменности активных ядер, измерены массы центральных черных дыр ряда галактик, созданы, основанные на наблюдениях, модели, описывающие строение «центральной машины активных ядер» — аккреционных дисков вокруг сверхмассивных черных дыр. Сергей Геннадиевич внес решающий вклад в развитие методов спектральных и фотометрических наблюдений АЯГ в КрАО с использованием приборов с зарядовой связью (ПЗС-детекторов). Он также занимался анализом данных и разработкой программного обеспечения.

С конца 1980-х С.Г. Сергеев осуществлял координацию участия КрАО в крупных международных проектах по исследованию АЯГ. Благодаря ему и Валентине Трофимовне Дорошенко астрономы КрАО стали участвовать в международных проектах по изучению активных галактик. С 2005 года Сергей Геннадиевич руководил научными проектами КрАО по изучению АЯГ, с 2011 года — отделом внегалактических исследований и гамма-

астрономии КрАО. Он внес значительный вклад в развитие «модели репроцессинга». Его уход - огромная потеря для всего этого наблюдательного направления на ЗТШ.

С.Г. Сергеев - автор более 130 научных работ (большинство из них в международных изданиях), он также был рецензентом журналов *Astrophysical Journal* и *Monthly Notices of the Royal Astronomical Society*.

Сергей Геннадиевич - Заслуженный деятель науки и техники Автономной республики Крым.

О результатах С.Г. Сергеева в сборнике [«Астрономы России..»](#)

Внес значительный вклад в определение массы центральных черных дыр и размеров BLR-области с помощью метода реверберации. Оценки этих важных параметров были получены для 16 АЯГ. Значительный прогресс был достигнут в деле определения кинематики BLR-области по переменности профилей широких эмиссионных линий и континуума. Полученные результаты демонстрируют разнообразие и возможную сложность кинематики газа в этой области.

Обнаружил, что галактики NLS1 расположены на нижнем краю диаграммы «масса-светимость». Такое положение соответствует чрезвычайно высоким темпам аккреции на черную дыру для этого типа АЯГ, что близко к максимально возможному значению для данной массы (предел Эддингтона). В противоположность этому, АЯГ с широкими двугорбыми профилями линий водорода (например, 3C 390.3) лежат на верхней кромке этой диаграммы и их темп аккреции очень низок.

Впервые применил статистический подход к анализу переменности профилей широких линий в АЯГ. Предложена дискообразная модель BLR-области с неоднородной поверхностной яркостью диска для объяснения переменности профиля широкой линии H_{α} в ядре *Mrk 102B*. Кроме того, была предложена двухкомпонентная модель BLR-области и установлено, что характеры переменности профилей бальмеровских линий и линий $He II$ сильно различаются.

Обнаружил изменения зависимости между потоком бальмеровских линий и потоком оптического континуума для нескольких АЯГ и сделал вывод о том, что эти изменения вызваны изменениями в спектральном распределении энергии. Также им был обнаружен так называемый «эффект Болдуина» в линии H_{β} и оценена его величина.

Внес значительный вклад в развитие «модели репроцессинга». Впервые показал, что имеют место задержки между изменениями потока в различных спектральных диапазонах и что эти задержки находятся в согласии с моделью репроцессинга. Моделируя наблюдаемый спектр и измеряя эти задержки, можно получить независимую от красного смещения оценку абсолютной светимости ядра («стандартные свечи» для космологии!).



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