

# Валентина Трофимовна Дорошенко



(15 января 1938 - 21 июля 2017)

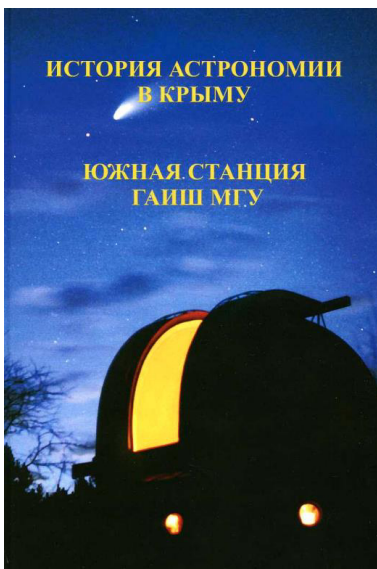
21 июля 2017 года, скоропостижно скончалась Валентина Трофимовна Дорошенко, старший научный сотрудник отдела физики эмиссионных звезд и галактик Государственного астрономического института имени П.К. Штернберга (ГАИШ). Валентина Трофимовна была неутомимым тружеником, всю свою жизнь посвятила любимой науке и успела многое сделать в разных ее направлениях.

В.Т. Дорошенко родилась 15 января 1938 г. в Воронеже. В 1955 окончила среднюю школу в Тамбове с серебряной медалью. С 1955 по 1960 – студентка астрономического отделения механико-математического факультета Московского государственного университета им. М.В. Ломоносова (МГУ). С 1960 по 1961 работала инженером воинской части 25840 в Большеве Московской области. С 1961 по 1966 – старший лаборант на Южной станции ГАИШ в поселке Научный в Крыму. С 1966 по 1969 – аспирантка физического факультета МГУ и ГАИШ. Ее кандидатская диссертация («Интерференционное и спектральное исследование газовых туманностей», 1973, научный руководитель д-р ф.-м.н. П.В. Щеглов) была посвящена Фабри-Перо интерферометрии некоторых галактических HII-областей. С 1969 работала в Крымской лаборатории ГАИШ сначала в должности младшего научного сотрудника, потом научного сотрудника (1986–1990) и старшего научного сотрудника (с 1990).

Валентина Трофимовна Дорошенко была признанным специалистом в области внегалактической астрономии. Сфера ее научных интересов была связана с наблюдениями разнообразных астрономических объектов: туманностей, звезд, галактик. С 1961 по 1965 проводила спектральные наблюдения планетарных туманностей по программе профессора Б.А. Воронцова-Вельяминова, а также занималась исследованиями Новой Геркулеса. До 1972 проводила исследования поля скоростей в туманностях по наблюдениям с эталоном Фабри-Перо; по спектральным наблюдениям газовых туманностей определяла физические параметры: температуру, плотность и др. Ею были проведены всесторонние исследования активных ядер галактик, блазаров, в течение многих лет она вела фотометрический мониторинг этих и других внегалактических объектов. В 1969–1984 занималась исследованием распределения энергии в спектрах ярких звезд и созданием сети вторичных спектральных стандартов. Результат этой работы – издание справочника «Спектрофотометрия ярких звёзд» (под редакцией доктора физико-математических наук И.Н. Глушневой), материалы которого использовались для определения эффективной температуры, ускорения силы тяжести, радиусов звезд. По этим наблюдениям В.Т. Дорошенко проводила исследования переменных звезд: Cyg X-1, X Per, N Cyg 1975,  $\delta$  Щита, Плейоны. С 1978 совместно с В.Ю. Теребижем занималась поиском активных ядер галактик (AGN) по списку объектов с высокой поверхностной яркостью, составленного М.А. Аракеляном. В результате этой работы были получены наблюдательные данные о распределении энергии в спектре нескольких сотен галактик с активными ядрами. Построены физические модели активных ядер. Наблюдения AGN на телескопах ГАИШ и Крымской астрономической обсерватории (КрАО) позволили получить многолетние (30 лет и более) уникальные ряды фотометрических данных по Сейфертовским галактикам (SyG), свидетельствующие о характере вспышечной активности, о запаздывании излучения в разных полосах континуума. Опытный, внимательный наблюдатель, она была одной из немногих, с кем ассоциировались современные внегалактические исследования в Крыму. Она начинала свои наблюдения в ту эпоху, когда феномен активности ядер галактик, переменности их блеска, казался непостижимым и загадочным. Позже полученные данные стали одной из основ метода эхокартирования (reverberation), позволившего измерить массы черных дыр в ядрах галактик. И в этих новых работах Валентина Трофимовна [принимала активное участие](#).

Валентина Трофимовна работала на разных телескопах ГАИШ, КрАО и других обсерваторий. В сотрудничестве с КрАО ею были выполнены спектральные исследования по характеру изменений профилей эмиссионных линий SyG и по определению времени запаздывания изменений в эмиссионных линиях относительно изменений непрерывного излучения, а также по определению массы центральных черных дыр. Эти работы показали свидетельства разнообразных (хаотических, вириальных, радиальных) движений газа в области образования широких линий в SyG.

Валентина Трофимовна активно участвовала в создании широко известного спектрофотометрического каталога ярких звезд ГАИШ (1969-1980). Создала каталог 940 слабых звезд (13-17 звездных величины в полосе V), измеренных с точностью 0,01 звездных величины, в окрестностях более сотни SyG, квазаров и блазаров. Эти работы использовались сотрудниками разных обсерваторий. Среди исследованных звёзд было обнаружено много переменных, некоторые из которых были исследованы подробно. Участвовала во многих международных многоволновых кооперациях по наблюдениям AGN, внося вклад своими наблюдениями в оптической области. Была среди авторов книги «История астрономии в



Крым. Южная станция ГАИШ МГУ» (Ред. В.П. Архипова, Е.А. Колотилов. Симферополь: Бизнес-Информ, 2013; 2015).

Многочисленные результаты ее наблюдений сохранятся в памяти и будут еще использованы будущими астрономами.

Ссылки:

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### Обзор

Глушнева И.Н., Харитонов А.В., Волошина И.Б., Глушкова Е.А., Дорошенко В.Т., Колотилов Е.А., Новикова М.Ф., Петровская И.Г., Ребрый В.Т., Терещенко В.М., Фетисова Т.С., Фришберг Л.Д. Распределение энергии в спектрах 100 звезд по материалам, полученным независимо в ГАИШ и Астрофизическом институте АН КазССР  
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