

# Виктор Павлович Силин



(26 мая 1926 г. — 12 января 2019 г.)

В ночь с 11 на 12 января 2019 года ушел из жизни один из старейших сотрудников ФИАН, выдающийся ученый, член-корреспондент РАН, профессор, д.ф.-м.н., главный научный сотрудник СТПЯ ФИАН, профессор МИФИ **Виктор Павлович Силин**.

Виктор Павлович Силин родился в Москве 26 мая 1926 года. В 1949 окончил МГУ им. М.В. Ломоносова.

Вся жизнь В.П. Силина связана с Физическим институтом им. П.Н. Лебедева, где он начал работать сразу после завершения учебы в МГУ и где он прошел путь от младшего научного сотрудника до заведующего Отделением физики твердого тела (1989-1995 гг.).

Практически с самого начала своей научной деятельности Виктор Павлович преподавал: в начале на физическом факультете МГУ, а затем в МИФИ, где ему присвоено звание профессора.

Им опубликовано около 700 научных работ по различным разделам физики, в том числе более 10 монографических обзоров в УФН и Трудах ФИАНа, а также 4 монографии, известные специалистам по физике плазмы и физике конденсированных сред. В.П. Силин является создателем большой научной школы и основателем сектора теории плазменных явлений ФИАНа. Член-корреспондент РАН с 1997 г.

Первые работы Виктора Павловича, написанные им в ходе работы в теоретическом отделе ФИАНа посвящены квантовой теории поля и теории элементарных частиц. Среди работ этого периода необходимо отметить работы по развитию метода Тамма-Данкова, позволившие в свое время углубить понимание природы ядерных взаимодействий. В это же время В.П. Силин начал заниматься теорией многих частиц и получил ряд основополагающих результатов по теории ферми-жидкости в металлах.

В дальнейшем научные интересы В.П. Силина сосредоточились на двух направлениях: теории конденсированных сред и физике газовой плазмы.

Среди наиболее значимых достижений можно отметить: предсказание спиновых волн в нормальных металлах, теоретическое описание поглощения звуковых волн в нормальных металлах и проводящих магнетиках, предсказание квантовых спиновых волн, вывод интегралов столкновений, позволяющих рассматривать кинетические и оптические свойства полупроводников в квантовых магнитных полях, разработку нового феноменологического подхода к описанию магнитных явлений в ферро- и антиферромагнетиках, единое описание магнитных и упругих свойств инварных сплавов, предсказание поверхностных квантовых волн, разработку нелокальной электродинамики джозефсоновских переходов, предсказание новых вихревых джозефсоновских структур и эффекта квантования скоростей джозефсоновских вихрей. Большинство из перечисленных результатов легли в основу новых направлений исследований, которые получили развитие в многочисленных работах последователей В.П. Силина.

В области физики плазмы В.П. Силину принадлежат фундаментальные исследования по кинетической теории и устойчивости плазмы. Им выведены интегралы столкновений в быстропеременных и сильных электрическом и магнитном полях, позволившие получить ряд важных результатов по теории поглощения высокочастотного излучения, по теории переноса в сильных магнитных полях, по теории генерации высших гармоник излучения. Работы по теории релятивистской плазмы и теории флуктуации микроскопических распределений; по теории явлений переноса, обусловленных ионным звуком, и по кинетической теории дрейфово-диссипативных неустойчивостей; по кинетической теории взаимодействия плазменных волн.

Основополагающее значение для понимания свойств плазмы, находящейся в сильном электромагнитном поле, имеет работа, опубликованная в 1965 г. по параметрическому резонансу в плазме. Она вызвала широкий резонанс во всем научном сообществе, стимулировала бурный всплеск активности по изучению различных нелинейных процессов в плазме и стала основой для многочисленных исследований. В.П. Силиным и учениками были заложены основы теории параметрических неустойчивостей и параметрической турбулентности с приложением к проблеме взаимодействия мощного лазерного излучения с плазмой.

Большой вклад В.П. Силин внес в разработку теории ионно-звуковой турбулентности. После большого цикла работ, выполненного совместно с учениками стало возможным говорить о становлении теории, позволяющей дать количественное описание аномального переноса заряда и тепла, турбулентного нагрева и спектра ионно-звуковой турбулентности.

Другая серия работ Виктора Павловича по нелинейной электродинамике посвящена проникновению сильного электромагнитного поля в плазму: теории самосогласованных нелинейных волноводов, нестационарной теории динамического воздействия мощного излучения на движущуюся плазму. Многие из сформулированных в этих работах результатов получили экспериментальное подтверждение.

В последние годы В.П. Силин с учениками уделял также исследованию теории вихрей в джозефсоновских структурах.

Огромный вклад в физику, который внес Виктор Павлович, отмечен двумя Государственными премиями СССР (за работы по теории ферми-жидкости (1970) и за работы по нелинейной теории плазмы (1987)), двумя орденами Трудового Красного Знамени и несколькими медалями. Ему присвоено звание Заслуженного деятеля науки РСФСР.

Многие физики нашей страны и других стран, не будучи его студентами или аспирантами, считают его своим учителем, поскольку учились на его трудах, учебниках и монографиях. Он создал Сектор теории плазменных явлений, основал большую научную школу. Среди них немало известных ученых, среди которых более десяти докторов наук и несколько десятков кандидатов наук. Он один из создателей журнала «Краткие сообщения

по физике». Все семьдесят лет работы в ФИАН Виктор Павлович активно участвовал в научной и общественной жизни института, в значительной мере способствуя поддержанию высочайшего авторитета ФИАН в нашей стране и за ее пределами. Его уход невосполнимая утрата. Глубочайшие соболезнования семье, ученикам и знавшим его коллегам. Светлая память о Викторе Павловиче останется в наших сердцах.

**Источник:**

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