

truly world-class research environment.

During my stay, I have strengthened my understanding of the fundamentals of cold atom physics, including laser cooling, optical methods, and vacuum systems. I have learned a great deal from many members of the group, and my knowledge of both basic and advanced techniques continues to grow.

What I appreciate most about the Ohmori Group is its warm, friendly, and cooperative atmosphere. Everyone is approachable, supportive, and always willing to share their experience. This environment makes it easy to learn new skills, ask questions, actively participate in daily experimental work and live peacefully. Whenever I face difficulties, someone in the group, especially the staff, is always ready to help. This strong culture of support is the true strength of the group.

Living in Japan has also been a very special experience. From the moment I arrived, I felt the kindness of the people. When you ask for help, they stay with you

until the problem is solved. The politeness, patience, and respect in Japanese society have deeply impressed me. With the support of my colleagues and IMS staff, my stay here has been very comfortable. Okazaki is a beautiful and peaceful city, which makes daily life even more pleasant.

I have also enjoyed many cultural events, such as the Bon Odori festival, fireworks, and other local traditions in Okazaki. Within the group, activities like the Nagashi-somen party, O-hanami, and the year-end celebration create a lively and welcoming atmosphere. These experiences make me feel truly at home.

Overall, my time at IMS is helping me build a strong foundation in experimental physics, improving my problem-solving skills, and deepening my interest in atomic physics. It is also helping me grow as a person. I am sincerely grateful to everyone in the Ohmori Group for their continuous support, guidance, and kindness.

BOOKレビュー

“X線光電子分光法”

著書名 日本表面真空学会編

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X線光電子分光法 (XPS) は、現代のナノテクノロジーの発展に不可欠な表面分析手法です。1998年の初版発行以来、本書は「かゆいところに手が届く実用書」として、多くの学生や研究者、技術者のバイブルとなってきました。

初版から25年余りが経過した今回の改訂では、技術の著しい進歩に合わせ、単なる入門書の枠を超えた進化を遂げています。この間、放射光をはじめとする高性能光源や、高性能イメージング型光電子分光・顕微鏡が登場するなど、分析技術は劇的に変化しました。本書ではこうした最新の技術革新を網羅するとともに、実験現場で直面する課題への実践的な対応から、結果解釈に不可欠な高度な知見まで、現場で真に役立つ経験と知識を凝縮しています。

特に新設された第6章では、実動作下 (オペランド) での計測や情報科学との融合など、最先端の応用事例を詳説しました。初学者の確かな道しるべとして、また熟練者が技術の再確認や新たな発想を得るための座右の書としていただけると嬉しいです。本書を通じてXPSの奥深さと可能性に触れ、皆様の研究・開発がさらなる飛躍を遂げることを願っております。

(松井 文彦 記)

