

Publications:

- Rugel, G., **Pavetich, S.**, Akhmadaliev, S., Enamorado Baez, S. M., Scharf, A., Ziegenrucker, R., Merchel, S., *The first four years of the AMS-facility DREAMS: Status and developments for more accurate radionuclide data*. Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, **370**, 94-100, (2016).
- Ott, U., Merchel, S., Herrmann, S., **Pavetich, S.**, Rugel, G., Faestermann, T., Fimiani, L., Korschinek, G., Ludwig, P., Folco, L., *Cosmic ray exposure and pre-atmospheric size of the Gebel Kamil iron meteorite*, Meteoritics & Planetary Science, **49**, 1365-1374, (2014).
- **Pavetich, S.**, Akhmadaliev, S., Arnold, M., Aumâtre, G., Bourlès, D., Buchriegler, J., Golser, R., Keddadouche, K., Martschini, M., Merchel, S., Rugel, G., Steier, P., *Interlaboratory study of the ion source memory effect in ^{36}Cl accelerator mass spectrometry*, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, **329**, 22-29, (2014).
- Martschini, M., Andersson, P., Forstner, O., Golser, R., Hanstorp, D., Lindahl, A.O., Kutschera, W., **Pavetich, S.**, Priller, A., Rohlén, J., Steier, P., Suter, M., Wallner, A., *AMS of ^{36}Cl with the VERA 3 MV tandem accelerator*, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, **294**, 115-120 (2013).
- Martschini M., Forstner O., Golser R., Kutschera W., **Pavetich S.**, Priller A., Steier P., Suter M., Wallner A., *Recent advances in AMS of ^{36}Cl with a 3-MV-tandem*, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, **269**, 3188-3191 (2011).

Conference papers:

- Smith, T.; Leya, I.; Merchel, S.; Rugel, G.; **Pavetich, S.**; Wallner, A.; Fifield, K.; Tims, S.; Korschinek, G., *Studying the constancy of the galactic cosmic rays using cosmogenic noble gases and radionuclides on iron meteorites*, *Meteoritics & Planetary Science* **49**, A371, (2014)

Other publications:

- Merchel, S., Akhmadaliev, S., **Pavetich, S.**, Rugel, G., *Ungeduldige Forscher träumen mit DREAMS Bestimmung langlebiger Radionuklide mit Beschleunigermassenspektrometrie*, GIT Labor-Fachzeitschrift 56 (2012) Februar, 88-90.

Talks at scientific conferences and seminars:

- 79th annual meeting DPG (Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP)), Heidelberg, Germany, 23.-27.03.2014, *Determination of the Maxwellian averaged cross-section of the reaction $^{35}\text{Cl}(n,\gamma)^{36}\text{Cl}$.*
- 13th International Conference on Accelerator Mass Spectrometry (AMS-13), 24.-29.08.2014, Aix-en-Provence, France, *From tip to toe – Improvements of the DREAMS facility for the determination of volatile and heavy radionuclides.*
- 3rd Heavy Ion Accelerator Symposium on Fundamental and Applied Science (HIAS), 30.06.-02.07.2014, Canberra, Australia, *Measuring the Good, the Volatile, and the Heavy at DREAMS.*
- 78th annual meeting DPG (Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP)), Berlin, Germany, 17.-21.03.2014 *Performance of the modified DREAMS ion source for ^{36}Cl applications.*
- 2nd Heavy Ion Accelerator Symposium on Fundamental and Applied Science (HIAS), 8.-12.04.2013, Canberra, Australia, *Interlaboratory study of the ion source memory effect in ^{36}Cl accelerator mass spectrometry.*
- Australian National University, Canberra, Australia, Nuclear Physics Department Seminar, 04.04.2013, *^{36}Cl -AMS at the DREAMS facility.*
- 77th annual meeting DPG (SAMOP), Hannover, Germany, 18.-22.03.2013, *Ion source memory in ^{36}Cl accelerator mass spectrometry.*
- University of Vienna, Austria, Faculty of Physics Isotope Research and Nuclear Physics, Vienna Environmental Research Accelerator seminar 11.2012, *Development of an ion source for volatile elements.*
- 76th annual meeting DPG (SAMOP), Stuttgart, Germany, 12.-16.03.2012, *Development of an ion source for volatile elements at DREAMS.*
- 6th annual Helmholtz-Zentrum Dresden-Rossendorf PhD seminar, Rabenberg, Germany, 05-07.11.2011, *DREAMS – Current status and prospects of DREsden Accelerator Mass Spectrometry.*
- Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Institute of Radiochemistry, Actinides Seminar, 09.2011, *AMS-measurement of Actinides.*
- 75th annual meeting DPG (SAMOP), Dresden, Germany, 14.-18.03.2011, *AMS measurement of the reaction $^{35}\text{Cl}(n,\gamma)^{36}\text{Cl}$ and its relevance to astrophysics and nuclear technology.*

- 60th annual meeting ÖPG (Österreichische Physikalische Gesellschaft), Salzburg, Austria, 06.-10.09.2010, *AMS measurement of the reaction $^{35}\text{Cl}(n,\gamma)^{36}\text{Cl}$ and its relevance to astrophysics and nuclear technology.*

Collaborations:

2013/2014: participant in DAAD-project AUGÉAS (AUstralian German AMS), (Project no.: 56266149), bilateral project between the Heavy Ion Accelerator Facility (HIAF) of the Australian National University and the DREsden Accelerator Mass Spectrometry (DREAMS) facility of the HZDR

2011/2012: participant in DAAD (2011) and DFG (2012)-projects FRALAMS (FRENch ALlemagne AMS), bilateral project between the Accélérateur pour les Sciences de la Terre, Environnement, Risques ASTER at Centre Europeen de Recherche et d'Enseignement en Geosciences (CEREGE) and the DREAMS facility of the HZDR