

## Jahrgang 2006-2007

<b>1 a</b>	<b>Fornerod Léonard (2006)</b>	<b>40.00</b>	<b>1 b</b>	<b>Fontaine Anthony (2006)</b>	<b>40.00</b>	<b>1</b>	<b>Poletti Diego (2006)</b>	<b>38.25</b>
	+ Donelli Enea (2006)	10.00		+ Tornare Laurent (2007)	10.00		+ Linder Laurent (2007)	10.00
	+ Grosjean Samuel (2006)	10.00		+ Torche Louis (2007)	10.00		+ Sauthier Bastien (2007)	10.00
	+ Tissot Joffrey (2006)	10.00		+ Grandgirard Nathan (2007)	10.00		+ Wolf Raphael (2007)	9.75
	+ Poletti Diego (2006)	10.00		+ Jacquaz Fabien (2006)	10.00		o Fornerod Léonard (2006)	8.50
<b>1</b>	<b>Tornare Laurent (2007)</b>	<b>38.00</b>	<b>1</b>	<b>Grosjean Samuel (2006)</b>	<b>38.00</b>	<b>1</b>	<b>Benninger Nico (2007)</b>	<b>37.75</b>
	o Fontaine Anthony (2006)	8.50		+ Benninger Nico (2007)	10.00		o Grosjean Samuel (2006)	8.50
	+ Lengen David (2007)	10.00		o Fornerod Léonard (2006)	8.50		+ Sanchez Raphael (2007)	9.75
	+ Donelli Enea (2006)	9.75		+ Linder Laurent (2007)	9.75		+ Zurfluh Colin (2007)	9.75
	+ Sauthier Bastien (2007)	9.75		+ Schmid Noe (2006)	9.75		+ Grandgirard Nathan (2007)	9.75
<b>1</b>	<b>Jacquaz Fabien (2006)</b>	<b>37.25</b>	<b>2</b>	<b>Tissot Joffrey (2006)</b>	<b>37.00</b>	<b>1</b>	<b>Sauthier Bastien (2007)</b>	<b>37.00</b>
	+ Wenger Niklas (2007)	10.00		+ Lengen David (2007)	10.00		+ Pellet Leon (2007)	9.75
	- Tissot Joffrey (2006)	8.75		- Jacquaz Fabien (2006)	8.75		o Poletti Diego (2006)	8.50
	+ Schmid Noe (2006)	10.00		o Fornerod Léonard (2006)	8.50		+ Cottier Silvano (2007)	10.00
	o Fontaine Anthony (2006)	8.50		+ Cottier Silvano (2007)	9.75		o Tornare Laurent (2007)	8.75
<b>1</b>	<b>Donelli Enea (2006)</b>	<b>37.00</b>	<b>1</b>	<b>Torche Louis (2007)</b>	<b>36.75</b>	<b>1</b>	<b>Schmid Noe (2006)</b>	<b>36.75</b>
	o Fornerod Léonard (2006)	8.50		o Fontaine Anthony (2006)	8.50		+ Dind Noah (2007)	9.75
	+ Wenger Niklas (2007)	10.00		o Linder Laurent (2007)	8.50		+ Cottier Silvano (2007)	10.00
	o Tornare Laurent (2007)	8.50		+ Dind Noah (2007)	10.00		o Jacquaz Fabien (2006)	8.50
	+ Wolf Raphael (2007)	10.00		+ Lengen David (2007)	9.75		o Grosjean Samuel (2006)	8.50
<b>1</b>	<b>Linder Laurent (2007)</b>	<b>36.75</b>	<b>1 a</b>	<b>Pellet Leon (2007)</b>	<b>36.25</b>	<b>1 b</b>	<b>Wolf Raphael (2007)</b>	<b>36.25</b>
	o Poletti Diego (2006)	8.50		o Sauthier Bastien (2007)	8.75		- Sanchez Raphael (2007)	9.00
	+ Torche Louis (2007)	9.75		- Zurfluh Colin (2007)	8.75		+ Crettaz Logan (2007)	10.00
	o Grosjean Samuel (2006)	8.50		- Sanchez Raphael (2007)	9.00		o Poletti Diego (2006)	8.75
	+ Wenger Niklas (2007)	10.00		+ Crettaz Logan (2007)	9.75		o Donelli Enea (2006)	8.50
<b>1</b>	<b>Grandgirard Nathan (2007)</b>	<b>36.00</b>	<b>1</b>	<b>Wenger Niklas (2007)</b>	<b>35.25</b>	<b>1 a</b>	<b>Lengen David (2007)</b>	<b>35.25</b>
	- Zurfluh Colin (2007)	9.00		o Jacquaz Fabien (2006)	8.50		o Tissot Joffrey (2006)	8.50
	+ Dind Noah (2007)	10.00		o Donelli Enea (2006)	8.50		o Tornare Laurent (2007)	8.50
	o Fontaine Anthony (2006)	8.50		+ Crettaz Logan (2007)	9.75		+ Dind Noah (2007)	9.75
	o Benninger Nico (2007)	8.50		o Linder Laurent (2007)	8.50		o Torche Louis (2007)	8.50
<b>1 b</b>	<b>Cottier Silvano (2007)</b>	<b>35.25</b>	<b>1</b>	<b>Sanchez Raphael (2007)</b>	<b>35.25</b>	<b>2</b>	<b>Zurfluh Colin (2007)</b>	<b>35.00</b>
	+ Crettaz Logan (2007)	9.75		- Wolf Raphael (2007)	9.00		- Grandgirard Nathan (2007)	9.00
	o Schmid Noe (2006)	8.50		o Benninger Nico (2007)	8.50		- Pellet Leon (2007)	8.75
	o Sauthier Bastien (2007)	8.50		- Pellet Leon (2007)	9.00		o Benninger Nico (2007)	8.50
	o Tissot Joffrey (2006)	8.50		- Zurfluh Colin (2007)	8.75		- Sanchez Raphael (2007)	8.75
<b>1 a</b>	<b>Dind Noah (2007)</b>	<b>34.00</b>	<b>1 b</b>	<b>Crettaz Logan (2007)</b>	<b>34.00</b>			
	o Schmid Noe (2006)	8.50		o Cottier Silvano (2007)	8.50			
	o Grandgirard Nathan (2007)	8.50		o Wolf Raphael (2007)	8.50			
	o Lengen David (2007)	8.50		o Wenger Niklas (2007)	8.50			
	o Torche Louis (2007)	8.50		o Pellet Leon (2007)	8.50			

\* Kantonal- bzw. Gauverbandskranzschwinger \*\* Teilverbandskranzschwinger \*\*\* Eidg. Kranzschwinger

## Jahrgang 2010-2011

<b>1</b>	<b>Marti Thelieu (2010)</b>	<b>39.75</b>	<b>1</b>	<b>Udressy Aloys (2010)</b>	<b>38.50</b>	<b>1</b>	<b>Imhasly Kian (2010)</b>	<b>38.50</b>
	+ Wyer Cyrill (2010)	10.00		+ Laloli Nicolas (2011)	10.00		+ Suchet Quentin (2011)	10.00
	+ Stalder Jan (2011)	9.75		+ Rodella Romeo (2011)	9.75		+ Laloli Nicolas (2011)	10.00
	+ Ryter Yannis (2011)	10.00		+ Beyeler Luc (2011)	10.00		+ Ney Yanis (2010)	10.00
	+ Imhasly Kian (2010)	10.00		- Delamarre Akim (2010)	8.75		o Marti Thelieu (2010)	8.50
<b>1</b>	<b>Delamarre Akim (2010)</b>	<b>38.25</b>	<b>1</b>	<b>Gsponer Iven (2010)</b>	<b>37.75</b>	<b>1</b>	<b>Ney Yanis (2010)</b>	<b>37.00</b>
	+ Gsponer Iven (2010)	10.00		o Delamarre Akim (2010)	8.50		+ Stalder Jan (2011)	10.00
	+ Amstutz Luca (2010)	9.75		+ Ney Yanis (2010)	9.75		o Gsponer Iven (2010)	8.50
	+ Suchet Quentin (2011)	9.75		+ Rodella Romeo (2011)	9.75		o Imhasly Kian (2010)	8.50
	- Udressy Aloys (2010)	8.75		+ Beyeler Luc (2011)	9.75		+ Wyer Cyrill (2010)	10.00
<b>1</b>	<b>Stalder Jan (2011)</b>	<b>36.75</b>	<b>1</b>	<b>Suchet Quentin (2011)</b>	<b>36.50</b>	<b>1</b>	<b>Beyeler Luc (2011)</b>	<b>35.75</b>
	o Ney Yanis (2010)	8.50		o Imhasly Kian (2010)	8.50		- Amstutz Luca (2010)	9.00
	o Marti Thelieu (2010)	8.50		+ Ryter Yannis (2011)	9.75		+ Wyer Cyrill (2010)	9.75
	+ Amstutz Luca (2010)	9.75		o Delamarre Akim (2010)	8.50		o Udressy Aloys (2010)	8.50
	+ Ryter Yannis (2011)	10.00		+ Amstutz Luca (2010)	9.75		o Gsponer Iven (2010)	8.50

# Statistische Tabelle nach 4 Gängen

Fête Régionale Leukerbad  
Leukerbad, 13.07.2019

<b>1</b>	<b>Wyer Cyrill (2010)</b>	<b>35.50</b>	<b>1</b>	<b>Laloli Nicolas (2011)</b>	<b>35.50</b>	<b>1</b>	<b>Ryter Yannis (2011)</b>	<b>35.25</b>
	o Marti Thelieu (2010)	8.50		o Udressy Aloys (2010)	8.50		+ Rodella Romeo (2011)	9.75
	o Beyeler Luc (2011)	8.50		o Imhasly Kian (2010)	8.50		o Suchet Quentin (2011)	8.50
	+ Laloli Nicolas (2011)	10.00		o Wyer Cyrill (2010)	8.50		o Marti Thelieu (2010)	8.50
	o Ney Yanis (2010)	8.50		+ Rodella Romeo (2011)	10.00		o Stalder Jan (2011)	8.50
<b>1</b>	<b>Amstutz Luca (2010)</b>	<b>34.25</b>	<b>1</b>	<b>Rodella Romeo (2011)</b>	<b>34.00</b>			
	- Beyeler Luc (2011)	8.75		o Ryter Yannis (2011)	8.50			
	o Delamarre Akim (2010)	8.50		o Udressy Aloys (2010)	8.50			
	o Stalder Jan (2011)	8.50		o Gsponer Iven (2010)	8.50			
	o Suchet Quentin (2011)	8.50		o Laloli Nicolas (2011)	8.50			

\* Kantonal- bzw. Gauverbandskranzschwinger \*\* Teilverbandskranzschwinger \*\*\* Eidg. Kranzschwinger

## Jahrgang 2008-2009

<b>1 a</b>	<b>Jacquaz Gaëtan (2008)</b>	<b>39.25</b>	<b>1 b</b>	<b>Amacker Nico (2008)</b>	<b>39.25</b>	<b>1</b>	<b>Wyssen Luca (2008)</b>	<b>38.50</b>
	+ Tissot Maxence (2008)	10.00		+ Thuillard Rémy (2008)	9.75		+ Thuillard Loïc (2008)	10.00
	+ Wyssen Luca (2008)	9.75		+ Suchet Maxime (2009)	9.75		o Jacquaz Gaëtan (2008)	8.50
	+ Olloz Alexandre (2008)	9.75		+ Blatter Tobias (2009)	9.75		+ Marti Thierry (2009)	10.00
	+ Vuichoud Clément (2008)	9.75		+ Tissot Arnaud (2008)	10.00		+ Blatter Tobias (2009)	10.00
<b>1</b>	<b>Braig Ruben (2008)</b>	<b>38.25</b>	<b>1</b>	<b>Tissot Maxence (2008)</b>	<b>38.00</b>	<b>1</b>	<b>Ayer Antoine (2008)</b>	<b>38.00</b>
	o Varone Nathan (2008)	8.50		o Jacquaz Gaëtan (2008)	8.50		+ Amstutz Nico (2009)	10.00
	+ Stadelmann Cyrill (2008)	9.75		+ Wittwer Len (2009)	9.75		+ Tissot Arnaud (2008)	9.75
	+ Bongard Timéo (2009)	10.00		+ Stritt Beni (2009)	9.75		o Vuichoud Clément (2008)	8.50
	+ Knieling Jonas (2008)	10.00		+ Gizzi Lenny (2009)	10.00		+ Olloz Alexandre (2008)	9.75
<b>2</b>	<b>Vuichoud Clément (2008)</b>	<b>37.75</b>	<b>1</b>	<b>Boschung Levin (2008)</b>	<b>37.50</b>	<b>1 a</b>	<b>Suchet Maxime (2009)</b>	<b>37.00</b>
	+ Wittwer Len (2009)	9.75		+ Knieling Jonas (2008)	10.00		+ Bongard Timéo (2009)	10.00
	+ Bongard Timéo (2009)	9.75		- Varone Nathan (2008)	8.75		o Amacker Nico (2008)	8.50
	+ Ayer Antoine (2008)	9.75		o Tissot Arnaud (2008)	8.75		- Varone Nathan (2008)	8.75
	o Jacquaz Gaëtan (2008)	8.50		+ Zurfluh Elio (2009)	10.00		+ Wittwer Len (2009)	9.75
<b>1 b</b>	<b>Tissot Arnaud (2008)</b>	<b>37.00</b>	<b>1 c</b>	<b>Stadelmann Cyrill (2008)</b>	<b>37.00</b>	<b>1</b>	<b>Marti Thierry (2009)</b>	<b>37.00</b>
	+ Zurfluh Elio (2009)	10.00		o Marti Thierry (2009)	8.50		+ Stadelmann Cyrill (2008)	10.00
	o Ayer Antoine (2008)	8.50		o Braig Ruben (2008)	8.50		o Olloz Alexandre (2008)	8.50
	+ Boschung Levin (2008)	10.00		+ Thuillard Loïc (2008)	10.00		o Wyssen Luca (2008)	8.50
	o Amacker Nico (2008)	8.50		+ Varone Nathan (2008)	10.00		+ Amstutz Nico (2009)	10.00
<b>1</b>	<b>Thuillard Rémy (2008)</b>	<b>36.75</b>	<b>1</b>	<b>Olloz Alexandre (2008)</b>	<b>36.75</b>	<b>1</b>	<b>Knieling Jonas (2008)</b>	<b>36.75</b>
	o Amacker Nico (2008)	8.50		+ Bregy Lars (2008)	10.00		o Boschung Levin (2008)	8.50
	o Knieling Jonas (2008)	8.50		+ Marti Thierry (2009)	9.75		+ Thuillard Rémy (2008)	10.00
	+ Amstutz Nico (2009)	9.75		o Jacquaz Gaëtan (2008)	8.50		+ Zurfluh Elio (2009)	9.75
	+ Walker Nico (2009)	10.00		o Ayer Antoine (2008)	8.50		o Braig Ruben (2008)	8.50
<b>1</b>	<b>Blatter Tobias (2009)</b>	<b>36.75</b>	<b>1 a</b>	<b>Stritt Beni (2009)</b>	<b>36.50</b>	<b>1 b</b>	<b>Gizzi Lenny (2009)</b>	<b>36.50</b>
	+ Gizzi Lenny (2009)	9.75		o Walker Nico (2009)	8.50		o Blatter Tobias (2009)	8.50
	+ Walker Nico (2009)	10.00		+ Bregy Lars (2008)	9.75		+ Amstutz Nico (2009)	9.75
	o Amacker Nico (2008)	8.50		o Tissot Maxence (2008)	8.50		+ Walker Nico (2009)	9.75
	o Wyssen Luca (2008)	8.50		+ Thuillard Loïc (2008)	9.75		o Tissot Maxence (2008)	8.50
<b>1</b>	<b>Varone Nathan (2008)</b>	<b>35.75</b>	<b>1</b>	<b>Wittwer Len (2009)</b>	<b>35.75</b>	<b>1</b>	<b>Zurfluh Elio (2009)</b>	<b>35.50</b>
	+ Braig Ruben (2008)	9.75		o Vuichoud Clément (2008)	8.50		o Tissot Arnaud (2008)	8.50
	- Boschung Levin (2008)	8.75		o Tissot Maxence (2008)	8.50		+ Thuillard Loïc (2008)	10.00
	- Suchet Maxime (2009)	8.75		+ Bregy Lars (2008)	10.00		o Knieling Jonas (2008)	8.50
	o Stadelmann Cyrill (2008)	8.50		o Suchet Maxime (2009)	8.75		o Boschung Levin (2008)	8.50
<b>1</b>	<b>Walker Nico (2009)</b>	<b>35.25</b>	<b>1</b>	<b>Bregy Lars (2008)</b>	<b>35.25</b>	<b>1</b>	<b>Thuillard Loïc (2008)</b>	<b>34.00</b>
	+ Stritt Beni (2009)	9.75		o Olloz Alexandre (2008)	8.50		o Wyssen Luca (2008)	8.50
	o Blatter Tobias (2009)	8.50		o Stritt Beni (2009)	8.50		o Zurfluh Elio (2009)	8.50
	o Gizzi Lenny (2009)	8.50		o Wittwer Len (2009)	8.50		o Stadelmann Cyrill (2008)	8.50
	o Thuillard Rémy (2008)	8.50		+ Bongard Timéo (2009)	9.75		o Stritt Beni (2009)	8.50
<b>1 a</b>	<b>Bongard Timéo (2009)</b>	<b>34.00</b>	<b>1 b</b>	<b>Amstutz Nico (2009)</b>	<b>34.00</b>			
	o Suchet Maxime (2009)	8.50		o Ayer Antoine (2008)	8.50			
	o Vuichoud Clément (2008)	8.50		o Gizzi Lenny (2009)	8.50			
	o Braig Ruben (2008)	8.50		o Thuillard Rémy (2008)	8.50			
	o Bregy Lars (2008)	8.50		o Marti Thierry (2009)	8.50			

\* Kantonal- bzw. Gauverbandskranzschwinger \*\* Teilverbandskranzschwinger \*\*\* Eidg. Kranzschwinger

## Jahrgang 2004-2005

<b>1</b>	<b>Suchet Jonathan (2005)</b>	<b>38.75</b>	<b>1</b>	<b>Panchaud Noé (2004)</b>	<b>38.25</b>	<b>1</b>	<b>Nicolet Bastien (2004)</b>	<b>37.75</b>
	+ Tornare Philippe (2004)	10.00		+ Chiodo Gian Paolo (2005)	9.75		+ Yerly Cyril (2005)	9.75
	+ Nicolet Bastien (2004)	10.00		+ Wolf Nicolas (2005)	9.75		o Suchet Jonathan (2005)	8.50
	- Collaud Bastien (2005)	9.00		- Martin Gaël (2004)	8.75		+ Leuenberger Gian (2005)	9.75
	+ Chiodo Gian Paolo (2005)	9.75		+ Tornare Philippe (2004)	10.00		+ Elmiger Silvan (2004)	9.75
<b>1</b>	<b>Collaud Bastien (2005)</b>	<b>37.75</b>	<b>2 a</b>	<b>Martin Gaël (2004)</b>	<b>37.50</b>	<b>2 b</b>	<b>Fuchs Sylvain (2005)</b>	<b>37.50</b>
	+ Mermillod Jérôme (2004)	10.00		+ Héritier Quentin (2005)	10.00		+ Lengen Michael (2005)	10.00
	- Martin Gaël (2004)	8.75		- Collaud Bastien (2005)	8.75		+ Romanens Noël (2004)	9.75
	- Suchet Jonathan (2005)	9.00		- Panchaud Noé (2004)	8.75		- Mermillod Jérôme (2004)	8.75
	+ Brülhart Kevin (2004)	10.00		+ Leuenberger Gian (2005)	10.00		- Wolf Nicolas (2005)	9.00
<b>1 a</b>	<b>Wolf Nicolas (2005)</b>	<b>37.25</b>	<b>1 b</b>	<b>Mermillod Jérôme (2004)</b>	<b>37.25</b>	<b>1</b>	<b>Chiodo Gian Paolo (2005)</b>	<b>37.00</b>
	+ Varonier Nevio Diego (2004)	9.75		o Collaud Bastien (2005)	8.50		o Panchaud Noé (2004)	8.50
	o Panchaud Noé (2004)	8.50		+ Buchs Simon (2004)	10.00		+ Nösberger Valentin (2005)	10.00
	+ Romanens Noël (2004)	10.00		- Fuchs Sylvain (2005)	8.75		+ Elmiger Silvan (2004)	10.00
	- Fuchs Sylvain (2005)	9.00		+ Nösberger Valentin (2005)	10.00		o Suchet Jonathan (2005)	8.50
<b>2 a</b>	<b>Héritier Quentin (2005)</b>	<b>36.75</b>	<b>2 b</b>	<b>Bellon Adrien (2004)</b>	<b>36.75</b>	<b>2 c</b>	<b>Tornare Philippe (2004)</b>	<b>36.75</b>
	o Martin Gaël (2004)	8.50		+ Buchs Thomas (2005)	9.75		o Suchet Jonathan (2005)	8.50
	+ Yerly Cyril (2005)	9.75		- Brülhart Kevin (2004)	8.75		+ Verdon Simon (2005)	10.00
	- Brülhart Kevin (2004)	8.75		o Tornare Philippe (2004)	8.50		+ Bellon Adrien (2004)	9.75
	+ Buchs Simon (2004)	9.75		+ Yerly Cyril (2005)	9.75		o Panchaud Noé (2004)	8.50
<b>1</b>	<b>Romanens Noël (2004)</b>	<b>36.75</b>	<b>1</b>	<b>Elmiger Silvan (2004)</b>	<b>36.75</b>	<b>1</b>	<b>Buchs Thomas (2005)</b>	<b>36.00</b>
	+ Glauser Matis (2005)	10.00		+ Nösberger Valentin (2005)	9.75		o Bellon Adrien (2004)	8.50
	o Fuchs Sylvain (2005)	8.50		+ Leuenberger Gian (2005)	10.00		- Lengen Michael (2005)	8.75
	o Wolf Nicolas (2005)	8.50		o Chiodo Gian Paolo (2005)	8.50		- Varonier Nevio Diego (2004)	8.75
	+ Lengen Michael (2005)	9.75		o Nicolet Bastien (2004)	8.50		+ Glauser Matis (2005)	10.00
<b>1</b>	<b>Varonier Nevio Diego (2004)</b>	<b>35.75</b>	<b>1</b>	<b>Brülhart Kevin (2004)</b>	<b>35.75</b>	<b>1</b>	<b>Lengen Michael (2005)</b>	<b>35.50</b>
	o Wolf Nicolas (2005)	8.50		+ Verdon Simon (2005)	9.75		o Fuchs Sylvain (2005)	8.50
	- Glauser Matis (2005)	8.75		- Bellon Adrien (2004)	8.75		- Buchs Thomas (2005)	8.75
	- Buchs Thomas (2005)	8.75		- Héritier Quentin (2005)	8.75		+ Glauser Matis (2005)	9.75
	+ Verdon Simon (2005)	9.75		o Collaud Bastien (2005)	8.50		o Romanens Noël (2004)	8.50
<b>1</b>	<b>Yerly Cyril (2005)</b>	<b>35.50</b>	<b>1</b>	<b>Nösberger Valentin (2005)</b>	<b>35.50</b>	<b>1</b>	<b>Leuenberger Gian (2005)</b>	<b>35.25</b>
	o Nicolet Bastien (2004)	8.50		o Elmiger Silvan (2004)	8.50		+ Buchs Simon (2004)	9.75
	o Héritier Quentin (2005)	8.50		o Chiodo Gian Paolo (2005)	8.50		o Elmiger Silvan (2004)	8.50
	+ Buchs Simon (2004)	10.00		+ Verdon Simon (2005)	10.00		o Nicolet Bastien (2004)	8.50
	o Bellon Adrien (2004)	8.50		o Mermillod Jérôme (2004)	8.50		o Martin Gaël (2004)	8.50
<b>1</b>	<b>Glauser Matis (2005)</b>	<b>34.50</b>	<b>1</b>	<b>Verdon Simon (2005)</b>	<b>34.00</b>	<b>1</b>	<b>Buchs Simon (2004)</b>	<b>34.00</b>
	o Romanens Noël (2004)	8.50		o Brülhart Kevin (2004)	8.50		o Leuenberger Gian (2005)	8.50
	- Varonier Nevio Diego (2004)	8.75		o Tornare Philippe (2004)	8.50		o Mermillod Jérôme (2004)	8.50
	o Lengen Michael (2005)	8.50		o Nösberger Valentin (2005)	8.50		o Yerly Cyril (2005)	8.50
	o Nösberger Valentin (2005)	8.75		o Varonier Nevio Diego (2004)	8.50		o Héritier Quentin (2005)	8.50

\* Kantonal- bzw. Gauverbandskranzschwinger \*\* Teilverbandskranzschwinger \*\*\* Eidg. Kranzschwinger