

temp

Student Group

First Name	Surname	Matrikel Nr.

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Gegeben sind folgende Gleichungen

$SU_A = f(U, E)S$	mit III.	S
$SU_A = -U, D-U, CS$	S	$\$ \color{white}{\{U, D = \{ 1 \over A, D \} \cdot U, A \overset{A, D \rightarrow \infty}{\longrightarrow} 0\}} \$$
$SU_A = \color{blue}{\{U, D\} - U, CS}$	mit II. und I.	$\$ \color{blue}{\{U, D\} = \{ 1 \over A, D \} \cdot U, A \overset{A, D \rightarrow \infty}{\longrightarrow} 0\} \$$
$SU_A = \color{blue}{\{U, C\}}$	mit V.	$\$ \color{blue}{\{U, C\} = \{ 1 \over C \} \cdot \int_0^1 I, C \ dt + Q, 0(t, 0) \$}$
$SU_A = -\{ 1 \over C \} \cdot \int_0^1 \color{blue}{\{I, C\}} \ dt + Q, 0(t, 0) \$$	mit IV.	$\$ \color{blue}{\{I, C\} = I, R \$}$
$SU_A = \color{blue}{\{ - \{ 1 \over C \} \cdot \int_0^1 I, R \ dt + Q, 0(t, 0) \color{blue}{\{I\}} \}} \$$	Ausklammern	
$SU_A = -\{ 1 \over C \} \cdot \int_0^1 I, R \ dt - \color{blue}{\{ Q, 0(t, 0) \over C \}} \$$	Integrationskonstante betrachten	$\$ \color{blue}{\{ Q, 0(t, 0) \over C \} = U, C(t, 0) = -U, \{A0\} \$}$
$SU_A = -\{ 1 \over C \} \cdot \int_0^1 \color{blue}{\{I, R\}} \ dt + U, \{A0\} \$$	mit VI. und II.	$\$ \color{blue}{\{I, R\} = \{ U, R \over R \} = \{ U, E \over R \} \$}$
$SU_A = -\{ 1 \over C \} \cdot \int_0^1 \color{blue}{\{1 \over R\}} \cdot U, E \ dt + U, \{A0\} \$$	Konstante vorziehen	
$SU_A = -\{ 1 \over R \cdot C \} \cdot \int_0^1 U, E \ dt + U, \{A0\} \$$		

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Last update: 2021/05/09 09:44

